

## Appendix

### Flow Field and Surface Properties from the Uncoupled CFD–DSMC Solution

The dissemination of the data from the experiment by Warburton [88] of the transitional–rarefied free stream interacting with a continuum jet has been anticipated. However, at the time of this writing, these data have not been made available. The experimental dataset should include electron-beam flow visualization, surface oil flow, pressure measured at surface tap locations, and surface heating inferred from time-accurate infrared imagery of the plate. Because these experimental results are not accessible, it is appropriate herein to provide results from the present numerical study, which can be directly compared with the experimental dataset when they become available.

In this appendix, flow field velocity vectors, number density, and temperature on the symmetry plane, and pressure, x and y directed shear stress components, and heat transfer on the upper surface of the flat plate are presented in tabulated form. Tabulation of the numerical results on these two planar surfaces provides an overlay of the expected experimental data locations.

Numerical results from the simulation of the flow field at the symmetry plane consist of 72,495 points and at the upper surface of the flat plate consist of 36,408 points. Combined, the dataset for these two planes is nearly 110,000 points. If these data were tabulated, it would require an inordinate number of pages. Therefore, to reduce the dataset to a manageable size, the numerical data of the simulation is mapped to regions

of regularly spaced cells with an interpolation routine of the Tecplot [5] software package. The cell count of the interpolated grid was constrained by the tabulation of the data; however, it was maximized to faithfully describe flow and surface details of the larger datasets. Descriptions of the size of these datasets is provided in the following sections.

### A.1 Symmetry Plane Flow Field Properties

Flow field properties on the symmetry plane are presented in this section of the appendix. As discussed previously, the flow field was mapped to a grid, which was less fine than that produced by the simulation to avoid voluminous tabulated data. The scheme employed to depict the interacting flow field was to first produce a coarse grid description for the overall representation, then in the region of the jet interaction, use a fine grid description.

Shown in Figure A.1 are the number density contours on the symmetry plane of the jet interacting flow field (also, previously given in Figure 3.20a) with the two gridded regions above the flat plate surface surrounded by rectangles and labeled as “Coarse Grid Region” and “Fine Grid Region”. Note that the coarse grid encloses the overall interacting flow field and the fine grid encloses the jet interaction region.

To describe the flow field,  $x/L$ ,  $z/L$ ,  $n/n_o$ ,  $u/V_\infty$ ,  $w/V_\infty$ , and  $nkT/\rho_\infty V_\infty^2$  are tabulated subsequently. These variables describe the kinematics and thermodynamics of the interacting flow. The data are normalized with Loschmidt’s number,  $n_o$ , Boltzmann constant,  $k$ , and the following constants taken from the problem description:  $L = 0.150m$ ,  $V_\infty = 1617.1m/s$ , and  $\rho_\infty = 2.7994 \times 10^{-4}kg/m^3$ .

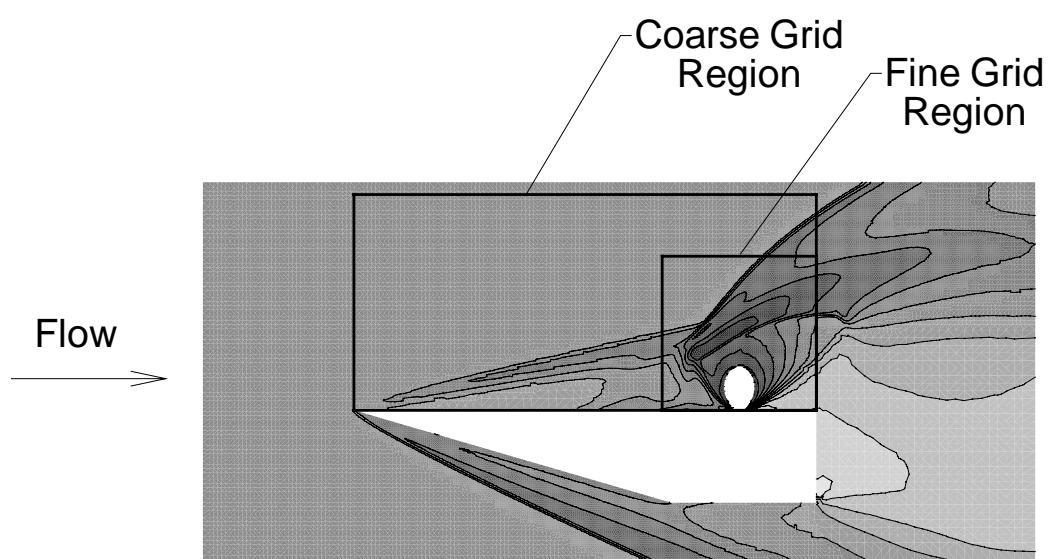


Fig. A.1. Flow field on the symmetry plane showing locations of the coarse and fine grid resolution regions.

### A.1.1 Coarse Grid Resolution

Table A.1 is a tabulation of the flow field variables interpolated at the node points of the coarse grid. The region occupied by the coarse grid and shown in Figure A.1 is  $0 \leq x/L \leq 1.0$  and  $0 \leq z/L \leq 0.4667$  with a regular cell spacing of 0.0025 m in each direction, which created an array of  $60 \times 28$  cells, each cell with a resolution of  $6.25 \times 10^{-6} m^2$ . As discussed previously, these data were interpolated from the calculated x-z symmetry plane flow field ( $y = 0$ ) with the Tecplot software package.

Table A.1: Flow field variables on symmetry plane, coarse grid.

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.0000	0.0000	$3.687 \times 10^{-4}$	0.607	$-4.466 \times 10^{-2}$	$1.149 \times 10^{-1}$
0.0167	0.0000	$3.390 \times 10^{-4}$	0.536	$8.883 \times 10^{-3}$	$8.545 \times 10^{-2}$
0.0333	0.0000	$3.326 \times 10^{-4}$	0.524	$1.609 \times 10^{-3}$	$8.398 \times 10^{-2}$
0.0500	0.0000	$2.738 \times 10^{-4}$	0.398	$7.120 \times 10^{-3}$	$7.553 \times 10^{-2}$
0.0667	0.0000	$2.011 \times 10^{-4}$	0.279	$5.974 \times 10^{-3}$	$5.471 \times 10^{-2}$
0.0833	0.0000	$2.039 \times 10^{-4}$	0.311	$6.633 \times 10^{-3}$	$5.603 \times 10^{-2}$
0.1000	0.0000	$2.023 \times 10^{-4}$	0.254	$2.736 \times 10^{-3}$	$5.292 \times 10^{-2}$
0.1167	0.0000	$1.998 \times 10^{-4}$	0.257	$8.531 \times 10^{-4}$	$5.172 \times 10^{-2}$
0.1333	0.0000	$1.831 \times 10^{-4}$	0.177	$8.511 \times 10^{-3}$	$4.369 \times 10^{-2}$
0.1500	0.0000	$1.792 \times 10^{-4}$	0.187	$5.650 \times 10^{-4}$	$4.195 \times 10^{-2}$
0.1667	0.0000	$1.615 \times 10^{-4}$	0.229	$4.353 \times 10^{-3}$	$3.945 \times 10^{-2}$
0.1833	0.0000	$1.763 \times 10^{-4}$	0.182	$5.881 \times 10^{-3}$	$4.215 \times 10^{-2}$
0.2000	0.0000	$1.882 \times 10^{-4}$	0.172	$-5.122 \times 10^{-3}$	$4.495 \times 10^{-2}$
0.2167	0.0000	$1.879 \times 10^{-4}$	0.157	$-4.176 \times 10^{-3}$	$4.357 \times 10^{-2}$
0.2333	0.0000	$1.878 \times 10^{-4}$	0.153	$-2.168 \times 10^{-3}$	$4.319 \times 10^{-2}$
0.2500	0.0000	$1.810 \times 10^{-4}$	0.137	$-4.760 \times 10^{-4}$	$4.028 \times 10^{-2}$
0.2667	0.0000	$1.642 \times 10^{-4}$	0.119	$2.073 \times 10^{-3}$	$3.524 \times 10^{-2}$
0.2833	0.0000	$1.624 \times 10^{-4}$	0.117	$2.846 \times 10^{-3}$	$3.448 \times 10^{-2}$
0.3000	0.0000	$1.647 \times 10^{-4}$	0.125	$4.265 \times 10^{-3}$	$3.471 \times 10^{-2}$
0.3167	0.0000	$1.727 \times 10^{-4}$	0.114	$1.505 \times 10^{-3}$	$3.656 \times 10^{-2}$
0.3333	0.0000	$1.730 \times 10^{-4}$	0.104	$1.970 \times 10^{-3}$	$3.566 \times 10^{-2}$
0.3500	0.0000	$1.737 \times 10^{-4}$	0.112	$-3.348 \times 10^{-3}$	$3.623 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.3667	0.0000	$1.691 \times 10^{-4}$	0.106	$2.373 \times 10^{-4}$	$3.530 \times 10^{-2}$
0.3833	0.0000	$1.716 \times 10^{-4}$	0.109	$-1.999 \times 10^{-3}$	$3.642 \times 10^{-2}$
0.4000	0.0000	$1.652 \times 10^{-4}$	0.100	$1.519 \times 10^{-3}$	$3.324 \times 10^{-2}$
0.4167	0.0000	$1.631 \times 10^{-4}$	$8.008 \times 10^{-2}$	$3.773 \times 10^{-4}$	$3.226 \times 10^{-2}$
0.4333	0.0000	$1.660 \times 10^{-4}$	$8.584 \times 10^{-2}$	$8.333 \times 10^{-5}$	$3.354 \times 10^{-2}$
0.4500	0.0000	$1.696 \times 10^{-4}$	$8.435 \times 10^{-2}$	$1.644 \times 10^{-3}$	$3.483 \times 10^{-2}$
0.4667	0.0000	$1.755 \times 10^{-4}$	$7.063 \times 10^{-2}$	$-2.257 \times 10^{-3}$	$3.514 \times 10^{-2}$
0.4833	0.0000	$2.010 \times 10^{-4}$	$5.132 \times 10^{-2}$	$-6.586 \times 10^{-4}$	$4.020 \times 10^{-2}$
0.5000	0.0000	$2.460 \times 10^{-4}$	$3.483 \times 10^{-2}$	$-8.990 \times 10^{-4}$	$4.732 \times 10^{-2}$
0.5167	0.0000	$2.955 \times 10^{-4}$	$1.115 \times 10^{-2}$	$4.315 \times 10^{-3}$	$5.515 \times 10^{-2}$
0.5333	0.0000	$3.432 \times 10^{-4}$	$1.871 \times 10^{-3}$	$1.976 \times 10^{-3}$	$6.279 \times 10^{-2}$
0.5500	0.0000	$4.066 \times 10^{-4}$	$-8.273 \times 10^{-3}$	$-7.409 \times 10^{-4}$	$7.013 \times 10^{-2}$
0.5667	0.0000	$4.265 \times 10^{-4}$	$-1.139 \times 10^{-2}$	$-1.524 \times 10^{-3}$	$7.532 \times 10^{-2}$
0.5833	0.0000	$4.590 \times 10^{-4}$	$-1.366 \times 10^{-2}$	$-3.486 \times 10^{-4}$	$8.085 \times 10^{-2}$
0.6000	0.0000	$4.950 \times 10^{-4}$	$-1.478 \times 10^{-2}$	$-5.437 \times 10^{-4}$	$8.438 \times 10^{-2}$
0.6167	0.0000	$5.145 \times 10^{-4}$	$-1.482 \times 10^{-2}$	$2.724 \times 10^{-4}$	$8.624 \times 10^{-2}$
0.6333	0.0000	$5.105 \times 10^{-4}$	$-2.455 \times 10^{-2}$	$1.508 \times 10^{-3}$	$8.990 \times 10^{-2}$
0.6500	0.0000	$5.260 \times 10^{-4}$	$-3.272 \times 10^{-2}$	$2.111 \times 10^{-3}$	$9.461 \times 10^{-2}$
0.6667	0.0000	$5.651 \times 10^{-4}$	$-4.079 \times 10^{-2}$	$3.379 \times 10^{-4}$	$1.024 \times 10^{-1}$
0.6833	0.0000	$6.725 \times 10^{-4}$	$-4.014 \times 10^{-2}$	$3.204 \times 10^{-3}$	$1.269 \times 10^{-1}$
0.7000	0.0000	$8.239 \times 10^{-4}$	$-2.728 \times 10^{-2}$	$1.084 \times 10^{-4}$	$1.578 \times 10^{-1}$
0.7167	0.0000	$9.436 \times 10^{-4}$	$1.712 \times 10^{-3}$	$1.795 \times 10^{-3}$	$1.759 \times 10^{-1}$
0.7333	0.0000	$8.614 \times 10^{-4}$	$3.125 \times 10^{-2}$	$5.436 \times 10^{-4}$	$1.565 \times 10^{-1}$
0.7500	0.0000	$7.135 \times 10^{-4}$	$4.417 \times 10^{-2}$	$2.391 \times 10^{-3}$	$1.240 \times 10^{-1}$
0.7667	0.0000	$6.309 \times 10^{-4}$	$3.570 \times 10^{-2}$	$-4.730 \times 10^{-5}$	$1.073 \times 10^{-1}$
0.7833	0.0000	$5.718 \times 10^{-4}$	$3.091 \times 10^{-2}$	$-3.605 \times 10^{-6}$	$9.359 \times 10^{-2}$
0.8000	0.0000	$3.427 \times 10^{-4}$	$3.410 \times 10^{-2}$	$2.521 \times 10^{-3}$	$5.312 \times 10^{-2}$
0.8167	0.0000	$2.226 \times 10^{-3}$	-0.197	0.172	$1.181 \times 10^{-1}$
0.8333	0.0000	$4.055 \times 10^{-3}$	$-9.125 \times 10^{-4}$	0.183	$2.015 \times 10^{-1}$
0.8500	0.0000	$3.962 \times 10^{-4}$	0.221	$6.468 \times 10^{-2}$	$1.655 \times 10^{-2}$
0.8667	0.0000	$2.600 \times 10^{-5}$	0.129	$5.563 \times 10^{-4}$	$2.588 \times 10^{-3}$
0.8833	0.0000	$2.918 \times 10^{-5}$	$6.970 \times 10^{-2}$	$3.456 \times 10^{-3}$	$4.147 \times 10^{-3}$
0.9000	0.0000	$3.830 \times 10^{-5}$	$4.292 \times 10^{-2}$	$-3.004 \times 10^{-3}$	$5.703 \times 10^{-3}$
0.9167	0.0000	$4.442 \times 10^{-5}$	$3.320 \times 10^{-2}$	$1.946 \times 10^{-3}$	$6.767 \times 10^{-3}$
0.9333	0.0000	$5.067 \times 10^{-5}$	$3.370 \times 10^{-2}$	$2.370 \times 10^{-3}$	$7.556 \times 10^{-3}$
0.9500	0.0000	$5.084 \times 10^{-5}$	$3.413 \times 10^{-2}$	$2.214 \times 10^{-3}$	$7.568 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9667	0.0000	$5.173 \times 10^{-5}$	$3.967 \times 10^{-2}$	$-1.692 \times 10^{-3}$	$7.998 \times 10^{-3}$
0.9833	0.0000	$5.107 \times 10^{-5}$	$4.373 \times 10^{-2}$	$-2.890 \times 10^{-3}$	$7.892 \times 10^{-3}$
1.0000	0.0000	$3.868 \times 10^{-5}$	$1.677 \times 10^{-2}$	$-8.950 \times 10^{-4}$	$6.081 \times 10^{-3}$
0.0000	0.0167	$2.251 \times 10^{-4}$	0.998	$1.816 \times 10^{-3}$	$7.990 \times 10^{-3}$
0.0167	0.0167	$2.421 \times 10^{-4}$	0.975	$2.531 \times 10^{-2}$	$1.388 \times 10^{-2}$
0.0333	0.0167	$2.642 \times 10^{-4}$	0.948	$5.537 \times 10^{-2}$	$2.076 \times 10^{-2}$
0.0500	0.0167	$2.937 \times 10^{-4}$	0.911	$8.540 \times 10^{-2}$	$3.060 \times 10^{-2}$
0.0667	0.0167	$2.977 \times 10^{-4}$	0.858	$9.455 \times 10^{-2}$	$4.214 \times 10^{-2}$
0.0833	0.0167	$2.931 \times 10^{-4}$	0.828	$9.021 \times 10^{-2}$	$4.659 \times 10^{-2}$
0.1000	0.0167	$2.700 \times 10^{-4}$	0.789	$8.215 \times 10^{-2}$	$4.819 \times 10^{-2}$
0.1167	0.0167	$2.399 \times 10^{-4}$	0.746	$6.999 \times 10^{-2}$	$4.717 \times 10^{-2}$
0.1333	0.0167	$2.149 \times 10^{-4}$	0.712	$6.108 \times 10^{-2}$	$4.530 \times 10^{-2}$
0.1500	0.0167	$1.862 \times 10^{-4}$	0.656	$4.400 \times 10^{-2}$	$4.332 \times 10^{-2}$
0.1667	0.0167	$1.723 \times 10^{-4}$	0.569	$2.814 \times 10^{-2}$	$4.263 \times 10^{-2}$
0.1833	0.0167	$1.721 \times 10^{-4}$	0.558	$3.539 \times 10^{-2}$	$4.359 \times 10^{-2}$
0.2000	0.0167	$1.629 \times 10^{-4}$	0.502	$3.170 \times 10^{-2}$	$4.322 \times 10^{-2}$
0.2167	0.0167	$1.584 \times 10^{-4}$	0.459	$2.519 \times 10^{-2}$	$4.308 \times 10^{-2}$
0.2333	0.0167	$1.535 \times 10^{-4}$	0.426	$2.174 \times 10^{-2}$	$4.164 \times 10^{-2}$
0.2500	0.0167	$1.532 \times 10^{-4}$	0.441	$2.476 \times 10^{-2}$	$3.973 \times 10^{-2}$
0.2667	0.0167	$1.482 \times 10^{-4}$	0.436	$2.082 \times 10^{-2}$	$3.863 \times 10^{-2}$
0.2833	0.0167	$1.433 \times 10^{-4}$	0.386	$1.408 \times 10^{-2}$	$3.784 \times 10^{-2}$
0.3000	0.0167	$1.418 \times 10^{-4}$	0.372	$1.081 \times 10^{-2}$	$3.738 \times 10^{-2}$
0.3167	0.0167	$1.412 \times 10^{-4}$	0.356	$1.178 \times 10^{-2}$	$3.729 \times 10^{-2}$
0.3333	0.0167	$1.413 \times 10^{-4}$	0.339	$1.210 \times 10^{-2}$	$3.705 \times 10^{-2}$
0.3500	0.0167	$1.395 \times 10^{-4}$	0.324	$1.206 \times 10^{-2}$	$3.634 \times 10^{-2}$
0.3667	0.0167	$1.375 \times 10^{-4}$	0.311	$1.090 \times 10^{-2}$	$3.566 \times 10^{-2}$
0.3833	0.0167	$1.340 \times 10^{-4}$	0.302	$1.125 \times 10^{-2}$	$3.458 \times 10^{-2}$
0.4000	0.0167	$1.324 \times 10^{-4}$	0.292	$1.106 \times 10^{-2}$	$3.360 \times 10^{-2}$
0.4167	0.0167	$1.310 \times 10^{-4}$	0.285	$1.042 \times 10^{-2}$	$3.341 \times 10^{-2}$
0.4333	0.0167	$1.332 \times 10^{-4}$	0.270	$1.057 \times 10^{-2}$	$3.396 \times 10^{-2}$
0.4500	0.0167	$1.369 \times 10^{-4}$	0.249	$1.219 \times 10^{-2}$	$3.509 \times 10^{-2}$
0.4667	0.0167	$1.449 \times 10^{-4}$	0.223	$1.461 \times 10^{-2}$	$3.733 \times 10^{-2}$
0.4833	0.0167	$1.555 \times 10^{-4}$	0.190	$2.066 \times 10^{-2}$	$4.083 \times 10^{-2}$
0.5000	0.0167	$1.738 \times 10^{-4}$	0.163	$2.391 \times 10^{-2}$	$4.721 \times 10^{-2}$
0.5167	0.0167	$2.082 \times 10^{-4}$	0.120	$2.167 \times 10^{-2}$	$5.663 \times 10^{-2}$
0.5333	0.0167	$2.526 \times 10^{-4}$	$5.936 \times 10^{-2}$	$1.801 \times 10^{-2}$	$6.422 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.5500	0.0167	$2.783 \times 10^{-4}$	$3.000 \times 10^{-2}$	$1.430 \times 10^{-2}$	$7.052 \times 10^{-2}$
0.5667	0.0167	$3.142 \times 10^{-4}$	$8.878 \times 10^{-3}$	$8.310 \times 10^{-3}$	$7.686 \times 10^{-2}$
0.5833	0.0167	$3.491 \times 10^{-4}$	$-1.229 \times 10^{-2}$	$6.310 \times 10^{-3}$	$8.092 \times 10^{-2}$
0.6000	0.0167	$3.677 \times 10^{-4}$	$-2.831 \times 10^{-2}$	$6.936 \times 10^{-3}$	$8.491 \times 10^{-2}$
0.6167	0.0167	$3.716 \times 10^{-4}$	$-4.463 \times 10^{-2}$	$6.592 \times 10^{-3}$	$8.811 \times 10^{-2}$
0.6333	0.0167	$3.594 \times 10^{-4}$	$-7.266 \times 10^{-2}$	$1.435 \times 10^{-2}$	$8.954 \times 10^{-2}$
0.6500	0.0167	$3.427 \times 10^{-4}$	-0.106	$1.840 \times 10^{-2}$	$9.291 \times 10^{-2}$
0.6667	0.0167	$3.346 \times 10^{-4}$	-0.129	$9.877 \times 10^{-3}$	$9.902 \times 10^{-2}$
0.6833	0.0167	$3.560 \times 10^{-4}$	-0.121	$-2.842 \times 10^{-2}$	$1.152 \times 10^{-1}$
0.7000	0.0167	$4.205 \times 10^{-4}$	$-6.348 \times 10^{-2}$	$-7.839 \times 10^{-2}$	$1.423 \times 10^{-1}$
0.7167	0.0167	$4.932 \times 10^{-4}$	$2.053 \times 10^{-2}$	-0.106	$1.565 \times 10^{-1}$
0.7333	0.0167	$4.943 \times 10^{-4}$	$9.941 \times 10^{-2}$	$-5.830 \times 10^{-2}$	$1.375 \times 10^{-1}$
0.7500	0.0167	$4.563 \times 10^{-4}$	0.133	$8.123 \times 10^{-3}$	$1.101 \times 10^{-1}$
0.7667	0.0167	$4.813 \times 10^{-4}$	0.101	$2.597 \times 10^{-2}$	$1.060 \times 10^{-1}$
0.7833	0.0167	$5.670 \times 10^{-4}$	$2.159 \times 10^{-3}$	$3.751 \times 10^{-2}$	$1.073 \times 10^{-1}$
0.8000	0.0167	$2.145 \times 10^{-3}$	-0.238	0.173	$9.137 \times 10^{-2}$
0.8167	0.0167	$7.335 \times 10^{-3}$	-0.185	0.220	$1.633 \times 10^{-1}$
0.8333	0.0167	$7.518 \times 10^{-3}$	$5.488 \times 10^{-3}$	0.226	$1.813 \times 10^{-1}$
0.8500	0.0167	$6.575 \times 10^{-3}$	0.191	0.215	$1.408 \times 10^{-1}$
0.8667	0.0167	$1.964 \times 10^{-3}$	0.270	0.174	$3.634 \times 10^{-2}$
0.8833	0.0167	$1.347 \times 10^{-4}$	0.281	$9.913 \times 10^{-2}$	$5.218 \times 10^{-3}$
0.9000	0.0167	$5.955 \times 10^{-5}$	0.176	$6.589 \times 10^{-2}$	$6.651 \times 10^{-3}$
0.9167	0.0167	$5.490 \times 10^{-5}$	0.108	$4.703 \times 10^{-2}$	$7.557 \times 10^{-3}$
0.9333	0.0167	$5.568 \times 10^{-5}$	$8.843 \times 10^{-2}$	$3.594 \times 10^{-2}$	$8.018 \times 10^{-3}$
0.9500	0.0167	$5.712 \times 10^{-5}$	$8.298 \times 10^{-2}$	$3.076 \times 10^{-2}$	$8.391 \times 10^{-3}$
0.9667	0.0167	$5.707 \times 10^{-5}$	$8.295 \times 10^{-2}$	$2.629 \times 10^{-2}$	$8.495 \times 10^{-3}$
0.9833	0.0167	$5.595 \times 10^{-5}$	$8.606 \times 10^{-2}$	$2.097 \times 10^{-2}$	$8.415 \times 10^{-3}$
1.0000	0.0167	$5.347 \times 10^{-5}$	$9.285 \times 10^{-2}$	$1.304 \times 10^{-2}$	$8.173 \times 10^{-3}$
0.0000	0.0333	$2.228 \times 10^{-4}$	0.999	$3.264 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.0167	0.0333	$2.233 \times 10^{-4}$	0.999	$2.369 \times 10^{-4}$	$7.425 \times 10^{-3}$
0.0333	0.0333	$2.250 \times 10^{-4}$	0.998	$1.991 \times 10^{-3}$	$7.714 \times 10^{-3}$
0.0500	0.0333	$2.321 \times 10^{-4}$	0.996	$9.344 \times 10^{-3}$	$8.591 \times 10^{-3}$
0.0667	0.0333	$2.492 \times 10^{-4}$	0.989	$2.723 \times 10^{-2}$	$1.087 \times 10^{-2}$
0.0833	0.0333	$2.871 \times 10^{-4}$	0.975	$5.635 \times 10^{-2}$	$1.614 \times 10^{-2}$
0.1000	0.0333	$3.405 \times 10^{-4}$	0.951	$9.290 \times 10^{-2}$	$2.558 \times 10^{-2}$
0.1167	0.0333	$3.695 \times 10^{-4}$	0.933	0.110	$3.249 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.1333	0.0333	$3.837 \times 10^{-4}$	0.912	0.118	$3.944 \times 10^{-2}$
0.1500	0.0333	$3.759 \times 10^{-4}$	0.898	0.116	$4.228 \times 10^{-2}$
0.1667	0.0333	$3.210 \times 10^{-4}$	0.870	0.107	$4.252 \times 10^{-2}$
0.1833	0.0333	$2.834 \times 10^{-4}$	0.841	$9.403 \times 10^{-2}$	$4.254 \times 10^{-2}$
0.2000	0.0333	$2.624 \times 10^{-4}$	0.817	$8.799 \times 10^{-2}$	$4.315 \times 10^{-2}$
0.2167	0.0333	$2.349 \times 10^{-4}$	0.784	$8.062 \times 10^{-2}$	$4.280 \times 10^{-2}$
0.2333	0.0333	$2.132 \times 10^{-4}$	0.748	$7.630 \times 10^{-2}$	$4.243 \times 10^{-2}$
0.2500	0.0333	$1.885 \times 10^{-4}$	0.692	$6.327 \times 10^{-2}$	$4.155 \times 10^{-2}$
0.2667	0.0333	$1.743 \times 10^{-4}$	0.652	$5.288 \times 10^{-2}$	$4.054 \times 10^{-2}$
0.2833	0.0333	$1.687 \times 10^{-4}$	0.654	$5.082 \times 10^{-2}$	$3.895 \times 10^{-2}$
0.3000	0.0333	$1.548 \times 10^{-4}$	0.615	$4.211 \times 10^{-2}$	$3.760 \times 10^{-2}$
0.3167	0.0333	$1.479 \times 10^{-4}$	0.589	$4.024 \times 10^{-2}$	$3.707 \times 10^{-2}$
0.3333	0.0333	$1.438 \times 10^{-4}$	0.564	$3.654 \times 10^{-2}$	$3.679 \times 10^{-2}$
0.3500	0.0333	$1.400 \times 10^{-4}$	0.543	$3.575 \times 10^{-2}$	$3.646 \times 10^{-2}$
0.3667	0.0333	$1.373 \times 10^{-4}$	0.522	$2.991 \times 10^{-2}$	$3.590 \times 10^{-2}$
0.3833	0.0333	$1.404 \times 10^{-4}$	0.555	$3.497 \times 10^{-2}$	$3.528 \times 10^{-2}$
0.4000	0.0333	$1.333 \times 10^{-4}$	0.514	$2.889 \times 10^{-2}$	$3.423 \times 10^{-2}$
0.4167	0.0333	$1.285 \times 10^{-4}$	0.486	$2.711 \times 10^{-2}$	$3.379 \times 10^{-2}$
0.4333	0.0333	$1.282 \times 10^{-4}$	0.467	$2.644 \times 10^{-2}$	$3.418 \times 10^{-2}$
0.4500	0.0333	$1.293 \times 10^{-4}$	0.444	$2.698 \times 10^{-2}$	$3.513 \times 10^{-2}$
0.4667	0.0333	$1.336 \times 10^{-4}$	0.414	$3.002 \times 10^{-2}$	$3.721 \times 10^{-2}$
0.4833	0.0333	$1.414 \times 10^{-4}$	0.378	$3.253 \times 10^{-2}$	$4.064 \times 10^{-2}$
0.5000	0.0333	$1.557 \times 10^{-4}$	0.314	$3.494 \times 10^{-2}$	$4.629 \times 10^{-2}$
0.5167	0.0333	$1.758 \times 10^{-4}$	0.261	$5.010 \times 10^{-2}$	$5.437 \times 10^{-2}$
0.5333	0.0333	$1.979 \times 10^{-4}$	0.232	$6.224 \times 10^{-2}$	$6.329 \times 10^{-2}$
0.5500	0.0333	$2.267 \times 10^{-4}$	0.162	$4.489 \times 10^{-2}$	$7.182 \times 10^{-2}$
0.5667	0.0333	$2.558 \times 10^{-4}$	$9.768 \times 10^{-2}$	$3.303 \times 10^{-2}$	$7.776 \times 10^{-2}$
0.5833	0.0333	$2.740 \times 10^{-4}$	$6.304 \times 10^{-2}$	$3.038 \times 10^{-2}$	$8.169 \times 10^{-2}$
0.6000	0.0333	$2.938 \times 10^{-4}$	$3.048 \times 10^{-2}$	$2.658 \times 10^{-2}$	$8.579 \times 10^{-2}$
0.6167	0.0333	$3.072 \times 10^{-4}$	$7.536 \times 10^{-4}$	$2.558 \times 10^{-2}$	$8.954 \times 10^{-2}$
0.6333	0.0333	$2.977 \times 10^{-4}$	$-2.440 \times 10^{-2}$	$3.532 \times 10^{-2}$	$8.976 \times 10^{-2}$
0.6500	0.0333	$2.776 \times 10^{-4}$	$-4.415 \times 10^{-2}$	$2.934 \times 10^{-2}$	$8.924 \times 10^{-2}$
0.6667	0.0333	$2.570 \times 10^{-4}$	$-5.601 \times 10^{-2}$	$-8.112 \times 10^{-3}$	$8.987 \times 10^{-2}$
0.6833	0.0333	$2.656 \times 10^{-4}$	$-5.413 \times 10^{-2}$	$-8.904 \times 10^{-2}$	$9.821 \times 10^{-2}$
0.7000	0.0333	$3.123 \times 10^{-4}$	$-1.411 \times 10^{-2}$	-0.203	$1.100 \times 10^{-1}$
0.7167	0.0333	$4.100 \times 10^{-4}$	$2.701 \times 10^{-2}$	-0.229	$1.136 \times 10^{-1}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7333	0.0333	$4.149 \times 10^{-4}$	$6.670 \times 10^{-2}$	-0.128	$9.915 \times 10^{-2}$
0.7500	0.0333	$3.628 \times 10^{-4}$	$7.104 \times 10^{-2}$	$1.158 \times 10^{-2}$	$8.615 \times 10^{-2}$
0.7667	0.0333	$4.933 \times 10^{-4}$	$-2.869 \times 10^{-2}$	$8.940 \times 10^{-2}$	$1.030 \times 10^{-1}$
0.7833	0.0333	$1.918 \times 10^{-3}$	-0.198	0.195	$1.166 \times 10^{-1}$
0.8000	0.0333	$5.268 \times 10^{-3}$	-0.225	0.237	$6.543 \times 10^{-2}$
0.8167	0.0333	$5.830 \times 10^{-3}$	-0.121	0.243	$8.435 \times 10^{-2}$
0.8333	0.0333	$5.777 \times 10^{-3}$	$1.072 \times 10^{-4}$	0.242	$8.841 \times 10^{-2}$
0.8500	0.0333	$5.595 \times 10^{-3}$	0.123	0.239	$7.977 \times 10^{-2}$
0.8667	0.0333	$5.073 \times 10^{-3}$	0.228	0.237	$6.083 \times 10^{-2}$
0.8833	0.0333	$1.588 \times 10^{-3}$	0.267	0.195	$1.882 \times 10^{-2}$
0.9000	0.0333	$3.260 \times 10^{-4}$	0.287	0.154	$5.810 \times 10^{-3}$
0.9167	0.0333	$1.048 \times 10^{-4}$	0.233	0.119	$7.264 \times 10^{-3}$
0.9333	0.0333	$6.980 \times 10^{-5}$	0.162	$8.732 \times 10^{-2}$	$7.953 \times 10^{-3}$
0.9500	0.0333	$6.283 \times 10^{-5}$	0.129	$6.942 \times 10^{-2}$	$8.203 \times 10^{-3}$
0.9667	0.0333	$6.214 \times 10^{-5}$	0.122	$5.996 \times 10^{-2}$	$8.505 \times 10^{-3}$
0.9833	0.0333	$6.037 \times 10^{-5}$	0.120	$5.064 \times 10^{-2}$	$8.520 \times 10^{-3}$
1.0000	0.0333	$5.811 \times 10^{-5}$	0.123	$4.217 \times 10^{-2}$	$8.358 \times 10^{-3}$
0.0000	0.0500	$2.251 \times 10^{-4}$	1.000	$-5.220 \times 10^{-5}$	$7.419 \times 10^{-3}$
0.0167	0.0500	$2.245 \times 10^{-4}$	1.000	$-5.138 \times 10^{-5}$	$7.382 \times 10^{-3}$
0.0333	0.0500	$2.243 \times 10^{-4}$	1.001	$-1.579 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.0500	0.0500	$2.261 \times 10^{-4}$	1.000	$1.160 \times 10^{-4}$	$7.436 \times 10^{-3}$
0.0667	0.0500	$2.260 \times 10^{-4}$	1.000	$-1.034 \times 10^{-4}$	$7.449 \times 10^{-3}$
0.0833	0.0500	$2.262 \times 10^{-4}$	1.000	$7.335 \times 10^{-4}$	$7.549 \times 10^{-3}$
0.1000	0.0500	$2.325 \times 10^{-4}$	0.999	$6.192 \times 10^{-3}$	$8.103 \times 10^{-3}$
0.1167	0.0500	$2.521 \times 10^{-4}$	0.994	$2.234 \times 10^{-2}$	$1.014 \times 10^{-2}$
0.1333	0.0500	$2.616 \times 10^{-4}$	0.990	$3.702 \times 10^{-2}$	$1.153 \times 10^{-2}$
0.1500	0.0500	$3.067 \times 10^{-4}$	0.980	$6.153 \times 10^{-2}$	$1.561 \times 10^{-2}$
0.1667	0.0500	$3.828 \times 10^{-4}$	0.966	$9.568 \times 10^{-2}$	$2.378 \times 10^{-2}$
0.1833	0.0500	$4.424 \times 10^{-4}$	0.953	0.120	$3.183 \times 10^{-2}$
0.2000	0.0500	$4.668 \times 10^{-4}$	0.941	0.130	$3.760 \times 10^{-2}$
0.2167	0.0500	$4.483 \times 10^{-4}$	0.929	0.130	$4.022 \times 10^{-2}$
0.2333	0.0500	$4.104 \times 10^{-4}$	0.916	0.124	$4.074 \times 10^{-2}$
0.2500	0.0500	$3.674 \times 10^{-4}$	0.900	0.119	$4.073 \times 10^{-2}$
0.2667	0.0500	$3.229 \times 10^{-4}$	0.877	0.111	$4.076 \times 10^{-2}$
0.2833	0.0500	$2.876 \times 10^{-4}$	0.850	0.103	$4.108 \times 10^{-2}$
0.3000	0.0500	$2.628 \times 10^{-4}$	0.834	$9.285 \times 10^{-2}$	$4.012 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.3167	0.0500	$2.365 \times 10^{-4}$	0.811	$8.230 \times 10^{-2}$	$3.888 \times 10^{-2}$
0.3333	0.0500	$2.138 \times 10^{-4}$	0.789	$7.507 \times 10^{-2}$	$3.758 \times 10^{-2}$
0.3500	0.0500	$1.950 \times 10^{-4}$	0.766	$6.835 \times 10^{-2}$	$3.633 \times 10^{-2}$
0.3667	0.0500	$1.822 \times 10^{-4}$	0.741	$6.590 \times 10^{-2}$	$3.601 \times 10^{-2}$
0.3833	0.0500	$1.714 \times 10^{-4}$	0.705	$5.994 \times 10^{-2}$	$3.611 \times 10^{-2}$
0.4000	0.0500	$1.623 \times 10^{-4}$	0.691	$5.503 \times 10^{-2}$	$3.496 \times 10^{-2}$
0.4167	0.0500	$1.543 \times 10^{-4}$	0.674	$5.333 \times 10^{-2}$	$3.431 \times 10^{-2}$
0.4333	0.0500	$1.484 \times 10^{-4}$	0.653	$4.890 \times 10^{-2}$	$3.396 \times 10^{-2}$
0.4500	0.0500	$1.432 \times 10^{-4}$	0.630	$4.437 \times 10^{-2}$	$3.401 \times 10^{-2}$
0.4667	0.0500	$1.439 \times 10^{-4}$	0.600	$4.736 \times 10^{-2}$	$3.608 \times 10^{-2}$
0.4833	0.0500	$1.483 \times 10^{-4}$	0.568	$5.192 \times 10^{-2}$	$3.869 \times 10^{-2}$
0.5000	0.0500	$1.529 \times 10^{-4}$	0.545	$6.228 \times 10^{-2}$	$4.130 \times 10^{-2}$
0.5167	0.0500	$1.641 \times 10^{-4}$	0.504	$7.087 \times 10^{-2}$	$4.722 \times 10^{-2}$
0.5333	0.0500	$1.846 \times 10^{-4}$	0.406	$8.087 \times 10^{-2}$	$5.890 \times 10^{-2}$
0.5500	0.0500	$2.076 \times 10^{-4}$	0.333	$8.865 \times 10^{-2}$	$7.016 \times 10^{-2}$
0.5667	0.0500	$2.249 \times 10^{-4}$	0.265	$8.046 \times 10^{-2}$	$7.782 \times 10^{-2}$
0.5833	0.0500	$2.429 \times 10^{-4}$	0.199	$7.114 \times 10^{-2}$	$8.388 \times 10^{-2}$
0.6000	0.0500	$2.560 \times 10^{-4}$	0.142	$5.724 \times 10^{-2}$	$8.679 \times 10^{-2}$
0.6167	0.0500	$2.658 \times 10^{-4}$	0.101	$5.436 \times 10^{-2}$	$8.900 \times 10^{-2}$
0.6333	0.0500	$2.674 \times 10^{-4}$	$7.573 \times 10^{-2}$	$4.801 \times 10^{-2}$	$8.913 \times 10^{-2}$
0.6500	0.0500	$2.536 \times 10^{-4}$	$6.292 \times 10^{-2}$	$3.430 \times 10^{-2}$	$8.736 \times 10^{-2}$
0.6667	0.0500	$2.391 \times 10^{-4}$	$4.134 \times 10^{-2}$	$-1.216 \times 10^{-2}$	$8.710 \times 10^{-2}$
0.6833	0.0500	$2.468 \times 10^{-4}$	$1.453 \times 10^{-2}$	-0.127	$9.364 \times 10^{-2}$
0.7000	0.0500	$2.914 \times 10^{-4}$	$4.848 \times 10^{-3}$	-0.269	$1.004 \times 10^{-1}$
0.7167	0.0500	$4.091 \times 10^{-4}$	$2.158 \times 10^{-2}$	-0.281	$9.564 \times 10^{-2}$
0.7333	0.0500	$3.961 \times 10^{-4}$	$2.772 \times 10^{-2}$	-0.144	$8.126 \times 10^{-2}$
0.7500	0.0500	$3.799 \times 10^{-4}$	$-5.139 \times 10^{-2}$	$7.214 \times 10^{-2}$	$7.595 \times 10^{-2}$
0.7667	0.0500	$1.175 \times 10^{-3}$	-0.175	0.201	$9.546 \times 10^{-2}$
0.7833	0.0500	$3.199 \times 10^{-3}$	-0.216	0.243	$4.329 \times 10^{-2}$
0.8000	0.0500	$4.788 \times 10^{-3}$	-0.186	0.274	$4.930 \times 10^{-2}$
0.8167	0.0500	$4.994 \times 10^{-3}$	-0.101	0.272	$5.719 \times 10^{-2}$
0.8333	0.0500	$4.975 \times 10^{-3}$	$9.554 \times 10^{-4}$	0.270	$5.821 \times 10^{-2}$
0.8500	0.0500	$4.931 \times 10^{-3}$	0.104	0.272	$5.568 \times 10^{-2}$
0.8667	0.0500	$4.720 \times 10^{-3}$	0.191	0.271	$4.790 \times 10^{-2}$
0.8833	0.0500	$2.637 \times 10^{-3}$	0.232	0.238	$2.421 \times 10^{-2}$
0.9000	0.0500	$1.188 \times 10^{-3}$	0.263	0.205	$1.063 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9167	0.0500	$4.174 \times 10^{-4}$	0.280	0.179	$5.074 \times 10^{-3}$
0.9333	0.0500	$1.500 \times 10^{-4}$	0.254	0.155	$6.617 \times 10^{-3}$
0.9500	0.0500	$8.336 \times 10^{-5}$	0.192	0.120	$7.609 \times 10^{-3}$
0.9667	0.0500	$6.850 \times 10^{-5}$	0.158	$9.954 \times 10^{-2}$	$7.962 \times 10^{-3}$
0.9833	0.0500	$6.456 \times 10^{-5}$	0.148	$8.568 \times 10^{-2}$	$8.103 \times 10^{-3}$
1.0000	0.0500	$6.147 \times 10^{-5}$	0.145	$7.500 \times 10^{-2}$	$8.077 \times 10^{-3}$
0.0000	0.0667	$2.238 \times 10^{-4}$	1.000	$-5.231 \times 10^{-5}$	$7.354 \times 10^{-3}$
0.0167	0.0667	$2.238 \times 10^{-4}$	1.000	$-3.912 \times 10^{-4}$	$7.364 \times 10^{-3}$
0.0333	0.0667	$2.247 \times 10^{-4}$	1.000	$-2.812 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.0500	0.0667	$2.238 \times 10^{-4}$	1.000	$-1.341 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.0667	0.0667	$2.238 \times 10^{-4}$	1.000	$-4.489 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.0833	0.0667	$2.245 \times 10^{-4}$	1.000	$-1.051 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.1000	0.0667	$2.247 \times 10^{-4}$	1.000	$1.495 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.1167	0.0667	$2.229 \times 10^{-4}$	1.000	$1.651 \times 10^{-4}$	$7.329 \times 10^{-3}$
0.1333	0.0667	$2.242 \times 10^{-4}$	1.000	$9.318 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.1500	0.0667	$2.269 \times 10^{-4}$	1.000	$3.333 \times 10^{-3}$	$7.604 \times 10^{-3}$
0.1667	0.0667	$2.293 \times 10^{-4}$	1.000	$5.850 \times 10^{-3}$	$7.808 \times 10^{-3}$
0.1833	0.0667	$2.421 \times 10^{-4}$	0.997	$1.387 \times 10^{-2}$	$8.742 \times 10^{-3}$
0.2000	0.0667	$2.652 \times 10^{-4}$	0.993	$2.967 \times 10^{-2}$	$1.063 \times 10^{-2}$
0.2167	0.0667	$3.211 \times 10^{-4}$	0.985	$6.050 \times 10^{-2}$	$1.533 \times 10^{-2}$
0.2333	0.0667	$4.017 \times 10^{-4}$	0.973	$9.462 \times 10^{-2}$	$2.260 \times 10^{-2}$
0.2500	0.0667	$4.846 \times 10^{-4}$	0.964	0.122	$3.100 \times 10^{-2}$
0.2667	0.0667	$5.332 \times 10^{-4}$	0.955	0.133	$3.714 \times 10^{-2}$
0.2833	0.0667	$5.310 \times 10^{-4}$	0.948	0.134	$3.951 \times 10^{-2}$
0.3000	0.0667	$5.047 \times 10^{-4}$	0.942	0.133	$4.057 \times 10^{-2}$
0.3167	0.0667	$4.617 \times 10^{-4}$	0.933	0.128	$4.037 \times 10^{-2}$
0.3333	0.0667	$4.115 \times 10^{-4}$	0.922	0.121	$3.935 \times 10^{-2}$
0.3500	0.0667	$3.723 \times 10^{-4}$	0.913	0.114	$3.817 \times 10^{-2}$
0.3667	0.0667	$3.350 \times 10^{-4}$	0.900	0.106	$3.718 \times 10^{-2}$
0.3833	0.0667	$2.934 \times 10^{-4}$	0.878	$9.881 \times 10^{-2}$	$3.660 \times 10^{-2}$
0.4000	0.0667	$2.714 \times 10^{-4}$	0.865	$9.316 \times 10^{-2}$	$3.597 \times 10^{-2}$
0.4167	0.0667	$2.468 \times 10^{-4}$	0.848	$8.554 \times 10^{-2}$	$3.537 \times 10^{-2}$
0.4333	0.0667	$2.294 \times 10^{-4}$	0.829	$8.101 \times 10^{-2}$	$3.531 \times 10^{-2}$
0.4500	0.0667	$2.126 \times 10^{-4}$	0.811	$7.821 \times 10^{-2}$	$3.473 \times 10^{-2}$
0.4667	0.0667	$2.017 \times 10^{-4}$	0.797	$7.621 \times 10^{-2}$	$3.433 \times 10^{-2}$
0.4833	0.0667	$1.940 \times 10^{-4}$	0.779	$7.525 \times 10^{-2}$	$3.481 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.5000	0.0667	$1.851 \times 10^{-4}$	0.735	$7.990 \times 10^{-2}$	$3.739 \times 10^{-2}$
0.5167	0.0667	$1.821 \times 10^{-4}$	0.659	$8.542 \times 10^{-2}$	$4.363 \times 10^{-2}$
0.5333	0.0667	$1.896 \times 10^{-4}$	0.601	$9.323 \times 10^{-2}$	$5.142 \times 10^{-2}$
0.5500	0.0667	$2.039 \times 10^{-4}$	0.550	0.119	$6.051 \times 10^{-2}$
0.5667	0.0667	$2.225 \times 10^{-4}$	0.477	0.126	$7.257 \times 10^{-2}$
0.5833	0.0667	$2.372 \times 10^{-4}$	0.400	0.118	$8.218 \times 10^{-2}$
0.6000	0.0667	$2.448 \times 10^{-4}$	0.329	0.101	$8.769 \times 10^{-2}$
0.6167	0.0667	$2.526 \times 10^{-4}$	0.272	$8.541 \times 10^{-2}$	$9.096 \times 10^{-2}$
0.6333	0.0667	$2.519 \times 10^{-4}$	0.231	$7.214 \times 10^{-2}$	$9.015 \times 10^{-2}$
0.6500	0.0667	$2.448 \times 10^{-4}$	0.194	$5.447 \times 10^{-2}$	$8.855 \times 10^{-2}$
0.6667	0.0667	$2.440 \times 10^{-4}$	0.148	$1.564 \times 10^{-2}$	$9.231 \times 10^{-2}$
0.6833	0.0667	$2.690 \times 10^{-4}$	$7.325 \times 10^{-2}$	$-8.850 \times 10^{-2}$	$1.092 \times 10^{-1}$
0.7000	0.0667	$3.414 \times 10^{-4}$	$-3.574 \times 10^{-4}$	-0.252	$1.257 \times 10^{-1}$
0.7167	0.0667	$5.263 \times 10^{-4}$	$2.248 \times 10^{-3}$	-0.262	$1.199 \times 10^{-1}$
0.7333	0.0667	$5.001 \times 10^{-4}$	$-5.549 \times 10^{-3}$	$-8.651 \times 10^{-2}$	$1.006 \times 10^{-1}$
0.7500	0.0667	$7.131 \times 10^{-4}$	-0.141	0.177	$8.306 \times 10^{-2}$
0.7667	0.0667	$2.557 \times 10^{-3}$	-0.194	0.250	$5.757 \times 10^{-2}$
0.7833	0.0667	$2.713 \times 10^{-3}$	-0.199	0.266	$2.317 \times 10^{-2}$
0.8000	0.0667	$4.270 \times 10^{-3}$	-0.152	0.295	$3.978 \times 10^{-2}$
0.8167	0.0667	$4.577 \times 10^{-3}$	$-8.624 \times 10^{-2}$	0.298	$4.932 \times 10^{-2}$
0.8333	0.0667	$4.320 \times 10^{-3}$	$-1.466 \times 10^{-3}$	0.294	$4.286 \times 10^{-2}$
0.8500	0.0667	$4.473 \times 10^{-3}$	$8.583 \times 10^{-2}$	0.298	$4.758 \times 10^{-2}$
0.8667	0.0667	$4.170 \times 10^{-3}$	0.152	0.295	$3.877 \times 10^{-2}$
0.8833	0.0667	$2.683 \times 10^{-3}$	0.201	0.266	$2.160 \times 10^{-2}$
0.9000	0.0667	$1.625 \times 10^{-3}$	0.235	0.238	$1.205 \times 10^{-2}$
0.9167	0.0667	$8.854 \times 10^{-4}$	0.260	0.212	$6.368 \times 10^{-3}$
0.9333	0.0667	$4.302 \times 10^{-4}$	0.274	0.192	$4.030 \times 10^{-3}$
0.9500	0.0667	$1.864 \times 10^{-4}$	0.257	0.177	$6.120 \times 10^{-3}$
0.9667	0.0667	$9.411 \times 10^{-5}$	0.206	0.145	$7.184 \times 10^{-3}$
0.9833	0.0667	$7.007 \times 10^{-5}$	0.175	0.122	$7.194 \times 10^{-3}$
1.0000	0.0667	$6.516 \times 10^{-5}$	0.164	0.108	$7.512 \times 10^{-3}$
0.0000	0.0833	$2.232 \times 10^{-4}$	1.000	$-3.446 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.0167	0.0833	$2.239 \times 10^{-4}$	1.000	$-2.107 \times 10^{-5}$	$7.372 \times 10^{-3}$
0.0333	0.0833	$2.236 \times 10^{-4}$	1.000	$7.703 \times 10^{-5}$	$7.383 \times 10^{-3}$
0.0500	0.0833	$2.238 \times 10^{-4}$	1.000	$-1.735 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.0667	0.0833	$2.238 \times 10^{-4}$	1.000	$-1.636 \times 10^{-4}$	$7.375 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.0833	0.0833	$2.246 \times 10^{-4}$	1.000	$-6.083 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.1000	0.0833	$2.242 \times 10^{-4}$	1.001	$-2.729 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.1167	0.0833	$2.242 \times 10^{-4}$	1.000	$-5.253 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.1333	0.0833	$2.238 \times 10^{-4}$	1.000	$-2.310 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.1500	0.0833	$2.242 \times 10^{-4}$	1.000	$-1.354 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.1667	0.0833	$2.243 \times 10^{-4}$	1.000	$2.203 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.1833	0.0833	$2.238 \times 10^{-4}$	1.000	$5.654 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.2000	0.0833	$2.242 \times 10^{-4}$	1.000	$6.438 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.2167	0.0833	$2.252 \times 10^{-4}$	1.000	$1.302 \times 10^{-3}$	$7.463 \times 10^{-3}$
0.2333	0.0833	$2.273 \times 10^{-4}$	0.999	$3.443 \times 10^{-3}$	$7.600 \times 10^{-3}$
0.2500	0.0833	$2.329 \times 10^{-4}$	0.998	$8.038 \times 10^{-3}$	$8.060 \times 10^{-3}$
0.2667	0.0833	$2.523 \times 10^{-4}$	0.995	$2.372 \times 10^{-2}$	$9.663 \times 10^{-3}$
0.2833	0.0833	$3.090 \times 10^{-4}$	0.988	$5.669 \times 10^{-2}$	$1.414 \times 10^{-2}$
0.3000	0.0833	$3.950 \times 10^{-4}$	0.978	$9.228 \times 10^{-2}$	$2.119 \times 10^{-2}$
0.3167	0.0833	$4.962 \times 10^{-4}$	0.968	0.121	$2.981 \times 10^{-2}$
0.3333	0.0833	$5.605 \times 10^{-4}$	0.962	0.135	$3.610 \times 10^{-2}$
0.3500	0.0833	$5.858 \times 10^{-4}$	0.957	0.138	$3.962 \times 10^{-2}$
0.3667	0.0833	$5.671 \times 10^{-4}$	0.954	0.136	$4.001 \times 10^{-2}$
0.3833	0.0833	$5.316 \times 10^{-4}$	0.951	0.131	$3.902 \times 10^{-2}$
0.4000	0.0833	$4.893 \times 10^{-4}$	0.946	0.126	$3.755 \times 10^{-2}$
0.4167	0.0833	$4.516 \times 10^{-4}$	0.940	0.121	$3.676 \times 10^{-2}$
0.4333	0.0833	$4.149 \times 10^{-4}$	0.933	0.117	$3.614 \times 10^{-2}$
0.4500	0.0833	$3.811 \times 10^{-4}$	0.924	0.111	$3.540 \times 10^{-2}$
0.4667	0.0833	$3.443 \times 10^{-4}$	0.912	0.106	$3.503 \times 10^{-2}$
0.4833	0.0833	$3.118 \times 10^{-4}$	0.900	0.101	$3.445 \times 10^{-2}$
0.5000	0.0833	$2.863 \times 10^{-4}$	0.884	$9.692 \times 10^{-2}$	$3.463 \times 10^{-2}$
0.5167	0.0833	$2.759 \times 10^{-4}$	0.867	$9.888 \times 10^{-2}$	$3.671 \times 10^{-2}$
0.5333	0.0833	$2.681 \times 10^{-4}$	0.837	0.108	$4.092 \times 10^{-2}$
0.5500	0.0833	$2.658 \times 10^{-4}$	0.794	0.119	$4.833 \times 10^{-2}$
0.5667	0.0833	$2.719 \times 10^{-4}$	0.728	0.137	$6.010 \times 10^{-2}$
0.5833	0.0833	$2.819 \times 10^{-4}$	0.650	0.151	$7.493 \times 10^{-2}$
0.6000	0.0833	$2.860 \times 10^{-4}$	0.566	0.150	$8.712 \times 10^{-2}$
0.6167	0.0833	$2.756 \times 10^{-4}$	0.494	0.133	$9.164 \times 10^{-2}$
0.6333	0.0833	$2.642 \times 10^{-4}$	0.425	0.120	$9.204 \times 10^{-2}$
0.6500	0.0833	$2.539 \times 10^{-4}$	0.369	$9.978 \times 10^{-2}$	$9.104 \times 10^{-2}$
0.6667	0.0833	$2.595 \times 10^{-4}$	0.294	$7.365 \times 10^{-2}$	$9.904 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6833	0.0833	$3.042 \times 10^{-4}$	0.156	$-3.552 \times 10^{-3}$	$1.303 \times 10^{-1}$
0.7000	0.0833	$4.129 \times 10^{-4}$	$4.531 \times 10^{-3}$	-0.190	$1.707 \times 10^{-1}$
0.7167	0.0833	$7.519 \times 10^{-4}$	$-1.843 \times 10^{-2}$	-0.223	$1.757 \times 10^{-1}$
0.7333	0.0833	$7.913 \times 10^{-4}$	$-3.742 \times 10^{-2}$	$-2.298 \times 10^{-3}$	$1.512 \times 10^{-1}$
0.7500	0.0833	$1.797 \times 10^{-3}$	-0.162	0.243	$8.525 \times 10^{-2}$
0.7667	0.0833	$2.108 \times 10^{-3}$	-0.194	0.266	$2.119 \times 10^{-2}$
0.7833	0.0833	$2.413 \times 10^{-3}$	-0.175	0.285	$1.814 \times 10^{-2}$
0.8000	0.0833	$3.397 \times 10^{-3}$	-0.127	0.308	$2.804 \times 10^{-2}$
0.8167	0.0833	$3.854 \times 10^{-3}$	$-6.494 \times 10^{-2}$	0.319	$3.483 \times 10^{-2}$
0.8333	0.0833	$3.817 \times 10^{-3}$	$-2.688 \times 10^{-3}$	0.318	$3.458 \times 10^{-2}$
0.8500	0.0833	$3.721 \times 10^{-3}$	$6.461 \times 10^{-2}$	0.319	$3.360 \times 10^{-2}$
0.8667	0.0833	$3.426 \times 10^{-3}$	0.128	0.308	$2.826 \times 10^{-2}$
0.8833	0.0833	$2.428 \times 10^{-3}$	0.175	0.285	$1.800 \times 10^{-2}$
0.9000	0.0833	$1.668 \times 10^{-3}$	0.209	0.262	$1.118 \times 10^{-2}$
0.9167	0.0833	$1.109 \times 10^{-3}$	0.237	0.239	$6.930 \times 10^{-3}$
0.9333	0.0833	$6.768 \times 10^{-4}$	0.258	0.217	$4.031 \times 10^{-3}$
0.9500	0.0833	$3.979 \times 10^{-4}$	0.268	0.201	$3.098 \times 10^{-3}$
0.9667	0.0833	$2.108 \times 10^{-4}$	0.253	0.192	$5.561 \times 10^{-3}$
0.9833	0.0833	$1.043 \times 10^{-4}$	0.219	0.168	$6.473 \times 10^{-3}$
1.0000	0.0833	$7.748 \times 10^{-5}$	0.197	0.150	$6.509 \times 10^{-3}$
0.0000	0.1000	$2.243 \times 10^{-4}$	1.000	$-5.211 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.0167	0.1000	$2.234 \times 10^{-4}$	1.000	$-3.323 \times 10^{-5}$	$7.358 \times 10^{-3}$
0.0333	0.1000	$2.227 \times 10^{-4}$	1.000	$-1.135 \times 10^{-4}$	$7.310 \times 10^{-3}$
0.0500	0.1000	$2.246 \times 10^{-4}$	1.000	$-2.425 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.0667	0.1000	$2.254 \times 10^{-4}$	1.000	$-2.909 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.0833	0.1000	$2.241 \times 10^{-4}$	1.000	$-5.546 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.1000	0.1000	$2.241 \times 10^{-4}$	1.000	$3.363 \times 10^{-5}$	$7.369 \times 10^{-3}$
0.1167	0.1000	$2.246 \times 10^{-4}$	1.000	$1.516 \times 10^{-4}$	$7.404 \times 10^{-3}$
0.1333	0.1000	$2.244 \times 10^{-4}$	1.000	$-2.497 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.1500	0.1000	$2.251 \times 10^{-4}$	1.000	$-3.084 \times 10^{-4}$	$7.426 \times 10^{-3}$
0.1667	0.1000	$2.242 \times 10^{-4}$	1.000	$-6.935 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.1833	0.1000	$2.245 \times 10^{-4}$	1.000	$-1.017 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.2000	0.1000	$2.245 \times 10^{-4}$	1.000	$-5.908 \times 10^{-5}$	$7.396 \times 10^{-3}$
0.2167	0.1000	$2.235 \times 10^{-4}$	1.000	$1.469 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.2333	0.1000	$2.245 \times 10^{-4}$	1.000	$1.042 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.2500	0.1000	$2.248 \times 10^{-4}$	1.000	$4.750 \times 10^{-4}$	$7.401 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.2667	0.1000	$2.253 \times 10^{-4}$	1.000	$5.497 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.2833	0.1000	$2.257 \times 10^{-4}$	1.000	$1.033 \times 10^{-3}$	$7.463 \times 10^{-3}$
0.3000	0.1000	$2.290 \times 10^{-4}$	0.999	$2.588 \times 10^{-3}$	$7.623 \times 10^{-3}$
0.3167	0.1000	$2.333 \times 10^{-4}$	0.998	$5.852 \times 10^{-3}$	$7.986 \times 10^{-3}$
0.3333	0.1000	$2.460 \times 10^{-4}$	0.996	$1.640 \times 10^{-2}$	$9.039 \times 10^{-3}$
0.3500	0.1000	$2.936 \times 10^{-4}$	0.988	$4.434 \times 10^{-2}$	$1.268 \times 10^{-2}$
0.3667	0.1000	$3.741 \times 10^{-4}$	0.980	$8.161 \times 10^{-2}$	$1.906 \times 10^{-2}$
0.3833	0.1000	$4.772 \times 10^{-4}$	0.971	0.114	$2.750 \times 10^{-2}$
0.4000	0.1000	$5.532 \times 10^{-4}$	0.966	0.132	$3.396 \times 10^{-2}$
0.4167	0.1000	$5.998 \times 10^{-4}$	0.963	0.138	$3.816 \times 10^{-2}$
0.4333	0.1000	$5.979 \times 10^{-4}$	0.960	0.136	$3.896 \times 10^{-2}$
0.4500	0.1000	$5.758 \times 10^{-4}$	0.959	0.133	$3.849 \times 10^{-2}$
0.4667	0.1000	$5.463 \times 10^{-4}$	0.957	0.129	$3.740 \times 10^{-2}$
0.4833	0.1000	$5.145 \times 10^{-4}$	0.954	0.125	$3.624 \times 10^{-2}$
0.5000	0.1000	$4.845 \times 10^{-4}$	0.951	0.121	$3.560 \times 10^{-2}$
0.5167	0.1000	$4.522 \times 10^{-4}$	0.946	0.118	$3.473 \times 10^{-2}$
0.5333	0.1000	$4.249 \times 10^{-4}$	0.940	0.115	$3.459 \times 10^{-2}$
0.5500	0.1000	$4.021 \times 10^{-4}$	0.931	0.117	$3.568 \times 10^{-2}$
0.5667	0.1000	$3.956 \times 10^{-4}$	0.914	0.125	$4.038 \times 10^{-2}$
0.5833	0.1000	$3.937 \times 10^{-4}$	0.878	0.145	$5.037 \times 10^{-2}$
0.6000	0.1000	$4.091 \times 10^{-4}$	0.825	0.169	$6.806 \times 10^{-2}$
0.6167	0.1000	$4.090 \times 10^{-4}$	0.764	0.181	$8.533 \times 10^{-2}$
0.6333	0.1000	$3.707 \times 10^{-4}$	0.693	0.169	$9.443 \times 10^{-2}$
0.6500	0.1000	$3.305 \times 10^{-4}$	0.618	0.152	$9.658 \times 10^{-2}$
0.6667	0.1000	$3.050 \times 10^{-4}$	0.539	0.135	$9.911 \times 10^{-2}$
0.6833	0.1000	$3.435 \times 10^{-4}$	0.375	0.116	$1.376 \times 10^{-1}$
0.7000	0.1000	$5.082 \times 10^{-4}$	$8.273 \times 10^{-2}$	$-5.374 \times 10^{-2}$	$2.421 \times 10^{-1}$
0.7167	0.1000	$1.141 \times 10^{-3}$	$-4.856 \times 10^{-2}$	-0.163	$2.978 \times 10^{-1}$
0.7333	0.1000	$1.567 \times 10^{-3}$	$-6.015 \times 10^{-2}$	$5.306 \times 10^{-2}$	$2.577 \times 10^{-1}$
0.7500	0.1000	$2.335 \times 10^{-3}$	-0.159	0.267	$6.039 \times 10^{-2}$
0.7667	0.1000	$1.644 \times 10^{-3}$	-0.185	0.279	$1.129 \times 10^{-2}$
0.7833	0.1000	$2.123 \times 10^{-3}$	-0.153	0.298	$1.451 \times 10^{-2}$
0.8000	0.1000	$2.722 \times 10^{-3}$	-0.109	0.316	$2.008 \times 10^{-2}$
0.8167	0.1000	$3.316 \times 10^{-3}$	$-5.629 \times 10^{-2}$	0.329	$2.629 \times 10^{-2}$
0.8333	0.1000	$3.597 \times 10^{-3}$	$-7.534 \times 10^{-5}$	0.334	$3.005 \times 10^{-2}$
0.8500	0.1000	$3.309 \times 10^{-3}$	$5.665 \times 10^{-2}$	0.330	$2.626 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8667	0.1000	$2.677 \times 10^{-3}$	0.109	0.316	$1.970 \times 10^{-2}$
0.8833	0.1000	$2.041 \times 10^{-3}$	0.153	0.298	$1.381 \times 10^{-2}$
0.9000	0.1000	$1.575 \times 10^{-3}$	0.188	0.278	$9.887 \times 10^{-3}$
0.9167	0.1000	$1.151 \times 10^{-3}$	0.215	0.258	$6.615 \times 10^{-3}$
0.9333	0.1000	$8.037 \times 10^{-4}$	0.238	0.239	$4.295 \times 10^{-3}$
0.9500	0.1000	$5.263 \times 10^{-4}$	0.256	0.220	$2.676 \times 10^{-3}$
0.9667	0.1000	$3.462 \times 10^{-4}$	0.262	0.209	$2.637 \times 10^{-3}$
0.9833	0.1000	$2.109 \times 10^{-4}$	0.246	0.200	$5.473 \times 10^{-3}$
1.0000	0.1000	$9.962 \times 10^{-5}$	0.217	0.172	$6.143 \times 10^{-3}$
0.0000	0.1167	$2.230 \times 10^{-4}$	1.000	$1.463 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.0167	0.1167	$2.226 \times 10^{-4}$	1.000	$-2.067 \times 10^{-4}$	$7.341 \times 10^{-3}$
0.0333	0.1167	$2.237 \times 10^{-4}$	1.000	$-1.321 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.0500	0.1167	$2.231 \times 10^{-4}$	1.000	$-4.705 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.0667	0.1167	$2.229 \times 10^{-4}$	1.000	$-7.318 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.0833	0.1167	$2.217 \times 10^{-4}$	1.000	$-6.981 \times 10^{-4}$	$7.326 \times 10^{-3}$
0.1000	0.1167	$2.234 \times 10^{-4}$	1.000	$-1.170 \times 10^{-3}$	$7.379 \times 10^{-3}$
0.1167	0.1167	$2.233 \times 10^{-4}$	1.001	$-7.491 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.1333	0.1167	$2.228 \times 10^{-4}$	1.001	$-1.293 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.1500	0.1167	$2.229 \times 10^{-4}$	1.000	$1.509 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.1667	0.1167	$2.228 \times 10^{-4}$	1.000	$4.779 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.1833	0.1167	$2.226 \times 10^{-4}$	1.001	$3.552 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.2000	0.1167	$2.225 \times 10^{-4}$	1.001	$4.678 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.2167	0.1167	$2.241 \times 10^{-4}$	1.000	$3.092 \times 10^{-5}$	$7.408 \times 10^{-3}$
0.2333	0.1167	$2.230 \times 10^{-4}$	1.000	$-3.513 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.2500	0.1167	$2.228 \times 10^{-4}$	1.000	$-1.799 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.2667	0.1167	$2.227 \times 10^{-4}$	1.000	$-2.978 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.2833	0.1167	$2.227 \times 10^{-4}$	1.000	$-4.559 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.3000	0.1167	$2.231 \times 10^{-4}$	1.000	$5.389 \times 10^{-5}$	$7.360 \times 10^{-3}$
0.3167	0.1167	$2.231 \times 10^{-4}$	1.000	$4.577 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.3333	0.1167	$2.229 \times 10^{-4}$	1.000	$2.420 \times 10^{-4}$	$7.356 \times 10^{-3}$
0.3500	0.1167	$2.234 \times 10^{-4}$	1.000	$5.083 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.3667	0.1167	$2.251 \times 10^{-4}$	1.000	$3.715 \times 10^{-4}$	$7.483 \times 10^{-3}$
0.3833	0.1167	$2.282 \times 10^{-4}$	0.999	$3.227 \times 10^{-3}$	$7.694 \times 10^{-3}$
0.4000	0.1167	$2.399 \times 10^{-4}$	0.997	$1.229 \times 10^{-2}$	$8.628 \times 10^{-3}$
0.4167	0.1167	$2.724 \times 10^{-4}$	0.992	$3.404 \times 10^{-2}$	$1.112 \times 10^{-2}$
0.4333	0.1167	$3.273 \times 10^{-4}$	0.985	$6.778 \times 10^{-2}$	$1.560 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.4500	0.1167	$4.382 \times 10^{-4}$	0.975	0.104	$2.397 \times 10^{-2}$
0.4667	0.1167	$5.280 \times 10^{-4}$	0.969	0.126	$3.111 \times 10^{-2}$
0.4833	0.1167	$5.870 \times 10^{-4}$	0.965	0.136	$3.575 \times 10^{-2}$
0.5000	0.1167	$6.032 \times 10^{-4}$	0.964	0.137	$3.742 \times 10^{-2}$
0.5167	0.1167	$5.921 \times 10^{-4}$	0.963	0.134	$3.711 \times 10^{-2}$
0.5333	0.1167	$5.664 \times 10^{-4}$	0.962	0.131	$3.604 \times 10^{-2}$
0.5500	0.1167	$5.471 \times 10^{-4}$	0.962	0.129	$3.517 \times 10^{-2}$
0.5667	0.1167	$5.241 \times 10^{-4}$	0.960	0.126	$3.453 \times 10^{-2}$
0.5833	0.1167	$5.090 \times 10^{-4}$	0.955	0.126	$3.513 \times 10^{-2}$
0.6000	0.1167	$5.073 \times 10^{-4}$	0.946	0.133	$3.840 \times 10^{-2}$
0.6167	0.1167	$5.305 \times 10^{-4}$	0.925	0.154	$4.891 \times 10^{-2}$
0.6333	0.1167	$5.840 \times 10^{-4}$	0.890	0.183	$6.842 \times 10^{-2}$
0.6500	0.1167	$5.875 \times 10^{-4}$	0.846	0.203	$8.920 \times 10^{-2}$
0.6667	0.1167	$5.127 \times 10^{-4}$	0.797	0.197	$9.673 \times 10^{-2}$
0.6833	0.1167	$4.540 \times 10^{-4}$	0.721	0.193	$1.113 \times 10^{-1}$
0.7000	0.1167	$6.514 \times 10^{-4}$	0.361	0.171	$2.961 \times 10^{-1}$
0.7167	0.1167	$1.477 \times 10^{-3}$	$-4.176 \times 10^{-2}$	$-5.094 \times 10^{-2}$	$5.500 \times 10^{-1}$
0.7333	0.1167	$4.327 \times 10^{-3}$	$-9.045 \times 10^{-2}$	$4.396 \times 10^{-2}$	$6.194 \times 10^{-1}$
0.7500	0.1167	$4.709 \times 10^{-3}$	$-7.201 \times 10^{-2}$	0.106	$6.019 \times 10^{-1}$
0.7667	0.1167	$1.808 \times 10^{-3}$	-0.137	0.241	$9.602 \times 10^{-2}$
0.7833	0.1167	$1.788 \times 10^{-3}$	-0.136	0.307	$1.116 \times 10^{-2}$
0.8000	0.1167	$2.199 \times 10^{-3}$	$-9.572 \times 10^{-2}$	0.322	$1.450 \times 10^{-2}$
0.8167	0.1167	$2.470 \times 10^{-3}$	$-4.863 \times 10^{-2}$	0.332	$1.687 \times 10^{-2}$
0.8333	0.1167	$2.734 \times 10^{-3}$	$-8.003 \times 10^{-4}$	0.335	$1.957 \times 10^{-2}$
0.8500	0.1167	$2.452 \times 10^{-3}$	$4.926 \times 10^{-2}$	0.332	$1.674 \times 10^{-2}$
0.8667	0.1167	$2.185 \times 10^{-3}$	$9.587 \times 10^{-2}$	0.322	$1.432 \times 10^{-2}$
0.8833	0.1167	$1.790 \times 10^{-3}$	0.136	0.307	$1.115 \times 10^{-2}$
0.9000	0.1167	$1.435 \times 10^{-3}$	0.169	0.291	$8.357 \times 10^{-3}$
0.9167	0.1167	$1.137 \times 10^{-3}$	0.197	0.273	$6.167 \times 10^{-3}$
0.9333	0.1167	$8.391 \times 10^{-4}$	0.220	0.256	$4.174 \times 10^{-3}$
0.9500	0.1167	$5.957 \times 10^{-4}$	0.239	0.239	$2.772 \times 10^{-3}$
0.9667	0.1167	$4.063 \times 10^{-4}$	0.254	0.223	$1.845 \times 10^{-3}$
0.9833	0.1167	$3.173 \times 10^{-4}$	0.256	0.216	$2.568 \times 10^{-3}$
1.0000	0.1167	$2.145 \times 10^{-4}$	0.242	0.210	$4.948 \times 10^{-3}$
0.0000	0.1333	$2.249 \times 10^{-4}$	1.000	$-5.451 \times 10^{-4}$	$7.413 \times 10^{-3}$
0.0167	0.1333	$2.244 \times 10^{-4}$	1.000	$-5.055 \times 10^{-4}$	$7.384 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.0333	0.1333	$2.246 \times 10^{-4}$	1.000	$-4.659 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.0500	0.1333	$2.232 \times 10^{-4}$	1.000	$-3.516 \times 10^{-4}$	$7.335 \times 10^{-3}$
0.0667	0.1333	$2.238 \times 10^{-4}$	1.000	$-5.563 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.0833	0.1333	$2.246 \times 10^{-4}$	1.000	$-5.699 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.1000	0.1333	$2.253 \times 10^{-4}$	1.000	$-6.154 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.1167	0.1333	$2.243 \times 10^{-4}$	1.000	$-1.260 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.1333	0.1333	$2.242 \times 10^{-4}$	1.000	$-8.446 \times 10^{-5}$	$7.381 \times 10^{-3}$
0.1500	0.1333	$2.252 \times 10^{-4}$	1.000	$1.850 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.1667	0.1333	$2.245 \times 10^{-4}$	1.000	$4.758 \times 10^{-6}$	$7.383 \times 10^{-3}$
0.1833	0.1333	$2.244 \times 10^{-4}$	1.000	$-1.455 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.2000	0.1333	$2.239 \times 10^{-4}$	1.000	$-5.932 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.2167	0.1333	$2.245 \times 10^{-4}$	1.000	$-2.676 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.2333	0.1333	$2.254 \times 10^{-4}$	0.999	$-2.336 \times 10^{-4}$	$7.405 \times 10^{-3}$
0.2500	0.1333	$2.250 \times 10^{-4}$	1.000	$4.043 \times 10^{-5}$	$7.386 \times 10^{-3}$
0.2667	0.1333	$2.245 \times 10^{-4}$	1.000	$-1.283 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.2833	0.1333	$2.243 \times 10^{-4}$	1.000	$8.199 \times 10^{-5}$	$7.363 \times 10^{-3}$
0.3000	0.1333	$2.240 \times 10^{-4}$	1.000	$-1.260 \times 10^{-4}$	$7.335 \times 10^{-3}$
0.3167	0.1333	$2.249 \times 10^{-4}$	1.000	$-1.267 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.3333	0.1333	$2.249 \times 10^{-4}$	1.000	$6.362 \times 10^{-5}$	$7.367 \times 10^{-3}$
0.3500	0.1333	$2.233 \times 10^{-4}$	1.001	$-3.444 \times 10^{-4}$	$7.305 \times 10^{-3}$
0.3667	0.1333	$2.237 \times 10^{-4}$	1.000	$-3.815 \times 10^{-4}$	$7.315 \times 10^{-3}$
0.3833	0.1333	$2.238 \times 10^{-4}$	1.000	$-2.766 \times 10^{-4}$	$7.329 \times 10^{-3}$
0.4000	0.1333	$2.235 \times 10^{-4}$	1.001	$-3.402 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.4167	0.1333	$2.252 \times 10^{-4}$	1.000	$-1.949 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.4333	0.1333	$2.259 \times 10^{-4}$	1.000	$7.513 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.4500	0.1333	$2.275 \times 10^{-4}$	1.000	$2.563 \times 10^{-3}$	$7.553 \times 10^{-3}$
0.4667	0.1333	$2.358 \times 10^{-4}$	0.998	$8.568 \times 10^{-3}$	$8.190 \times 10^{-3}$
0.4833	0.1333	$2.608 \times 10^{-4}$	0.994	$2.676 \times 10^{-2}$	$1.013 \times 10^{-2}$
0.5000	0.1333	$3.090 \times 10^{-4}$	0.987	$5.572 \times 10^{-2}$	$1.395 \times 10^{-2}$
0.5167	0.1333	$3.905 \times 10^{-4}$	0.980	$8.978 \times 10^{-2}$	$2.020 \times 10^{-2}$
0.5333	0.1333	$4.923 \times 10^{-4}$	0.972	0.118	$2.804 \times 10^{-2}$
0.5500	0.1333	$5.704 \times 10^{-4}$	0.969	0.131	$3.382 \times 10^{-2}$
0.5667	0.1333	$6.085 \times 10^{-4}$	0.967	0.135	$3.667 \times 10^{-2}$
0.5833	0.1333	$6.056 \times 10^{-4}$	0.967	0.134	$3.683 \times 10^{-2}$
0.6000	0.1333	$5.901 \times 10^{-4}$	0.967	0.131	$3.617 \times 10^{-2}$
0.6167	0.1333	$5.744 \times 10^{-4}$	0.965	0.129	$3.556 \times 10^{-2}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6333	0.1333	$5.746 \times 10^{-4}$	0.963	0.132	$3.664 \times 10^{-2}$
0.6500	0.1333	$6.074 \times 10^{-4}$	0.953	0.146	$4.236 \times 10^{-2}$
0.6667	0.1333	$7.073 \times 10^{-4}$	0.930	0.181	$6.078 \times 10^{-2}$
0.6833	0.1333	$7.972 \times 10^{-4}$	0.900	0.212	$8.592 \times 10^{-2}$
0.7000	0.1333	$8.182 \times 10^{-4}$	0.828	0.239	$1.354 \times 10^{-1}$
0.7167	0.1333	$1.401 \times 10^{-3}$	0.342	0.223	$6.584 \times 10^{-1}$
0.7333	0.1333	$3.224 \times 10^{-3}$	$1.085 \times 10^{-3}$	$7.174 \times 10^{-2}$	$8.540 \times 10^{-1}$
0.7500	0.1333	$4.689 \times 10^{-3}$	$-1.177 \times 10^{-2}$	$6.114 \times 10^{-2}$	$7.405 \times 10^{-1}$
0.7667	0.1333	$4.875 \times 10^{-3}$	$-1.951 \times 10^{-2}$	$7.660 \times 10^{-2}$	$7.061 \times 10^{-1}$
0.7833	0.1333	$3.278 \times 10^{-3}$	$-3.190 \times 10^{-2}$	0.175	$3.558 \times 10^{-1}$
0.8000	0.1333	$1.776 \times 10^{-3}$	$-8.478 \times 10^{-2}$	0.325	$1.156 \times 10^{-2}$
0.8167	0.1333	$1.971 \times 10^{-3}$	$-4.317 \times 10^{-2}$	0.334	$1.180 \times 10^{-2}$
0.8333	0.1333	$2.188 \times 10^{-3}$	$-7.994 \times 10^{-4}$	0.336	$1.388 \times 10^{-2}$
0.8500	0.1333	$1.958 \times 10^{-3}$	$4.369 \times 10^{-2}$	0.334	$1.169 \times 10^{-2}$
0.8667	0.1333	$1.763 \times 10^{-3}$	$8.520 \times 10^{-2}$	0.326	$1.028 \times 10^{-2}$
0.8833	0.1333	$1.524 \times 10^{-3}$	0.122	0.314	$8.711 \times 10^{-3}$
0.9000	0.1333	$1.251 \times 10^{-3}$	0.153	0.300	$6.760 \times 10^{-3}$
0.9167	0.1333	$1.056 \times 10^{-3}$	0.181	0.285	$5.389 \times 10^{-3}$
0.9333	0.1333	$8.426 \times 10^{-4}$	0.203	0.269	$3.988 \times 10^{-3}$
0.9500	0.1333	$6.256 \times 10^{-4}$	0.223	0.254	$2.740 \times 10^{-3}$
0.9667	0.1333	$4.419 \times 10^{-4}$	0.240	0.239	$1.843 \times 10^{-3}$
0.9833	0.1333	$3.390 \times 10^{-4}$	0.253	0.225	$1.425 \times 10^{-3}$
1.0000	0.1333	$2.754 \times 10^{-4}$	0.248	0.222	$2.714 \times 10^{-3}$
0.0000	0.1500	$2.244 \times 10^{-4}$	1.000	$2.253 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.0167	0.1500	$2.240 \times 10^{-4}$	1.000	$-1.815 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.0333	0.1500	$2.246 \times 10^{-4}$	1.000	$-2.539 \times 10^{-4}$	$7.425 \times 10^{-3}$
0.0500	0.1500	$2.243 \times 10^{-4}$	1.000	$-8.265 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.0667	0.1500	$2.243 \times 10^{-4}$	1.000	$-7.154 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.0833	0.1500	$2.238 \times 10^{-4}$	1.000	$-3.782 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.1000	0.1500	$2.230 \times 10^{-4}$	1.000	$-7.593 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.1167	0.1500	$2.234 \times 10^{-4}$	1.000	$-2.579 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.1333	0.1500	$2.240 \times 10^{-4}$	1.000	$-4.147 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.1500	0.1500	$2.225 \times 10^{-4}$	1.000	$-4.125 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.1667	0.1500	$2.219 \times 10^{-4}$	1.000	$-5.880 \times 10^{-4}$	$7.301 \times 10^{-3}$
0.1833	0.1500	$2.228 \times 10^{-4}$	1.000	$-2.267 \times 10^{-4}$	$7.338 \times 10^{-3}$
0.2000	0.1500	$2.230 \times 10^{-4}$	1.000	$7.527 \times 10^{-5}$	$7.342 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.2167	0.1500	$2.233 \times 10^{-4}$	1.000	$1.715 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.2333	0.1500	$2.240 \times 10^{-4}$	0.999	$1.389 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.2500	0.1500	$2.239 \times 10^{-4}$	1.000	$1.214 \times 10^{-7}$	$7.365 \times 10^{-3}$
0.2667	0.1500	$2.254 \times 10^{-4}$	1.000	$8.812 \times 10^{-5}$	$7.421 \times 10^{-3}$
0.2833	0.1500	$2.241 \times 10^{-4}$	1.000	$2.556 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.3000	0.1500	$2.242 \times 10^{-4}$	0.999	$1.447 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.3167	0.1500	$2.243 \times 10^{-4}$	1.000	$7.226 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.3333	0.1500	$2.238 \times 10^{-4}$	1.000	$6.301 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.3500	0.1500	$2.244 \times 10^{-4}$	1.000	$5.954 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.3667	0.1500	$2.249 \times 10^{-4}$	0.999	$5.510 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.3833	0.1500	$2.235 \times 10^{-4}$	1.000	$1.637 \times 10^{-4}$	$7.339 \times 10^{-3}$
0.4000	0.1500	$2.234 \times 10^{-4}$	1.000	$1.917 \times 10^{-4}$	$7.345 \times 10^{-3}$
0.4167	0.1500	$2.244 \times 10^{-4}$	1.000	$1.462 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.4333	0.1500	$2.245 \times 10^{-4}$	1.000	$-4.461 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.4500	0.1500	$2.245 \times 10^{-4}$	1.000	$1.185 \times 10^{-5}$	$7.380 \times 10^{-3}$
0.4667	0.1500	$2.263 \times 10^{-4}$	1.000	$-1.792 \times 10^{-4}$	$7.420 \times 10^{-3}$
0.4833	0.1500	$2.256 \times 10^{-4}$	1.000	$-2.285 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.5000	0.1500	$2.250 \times 10^{-4}$	1.000	$1.202 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.5167	0.1500	$2.246 \times 10^{-4}$	1.000	$8.939 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.5333	0.1500	$2.316 \times 10^{-4}$	0.999	$5.256 \times 10^{-3}$	$7.853 \times 10^{-3}$
0.5500	0.1500	$2.475 \times 10^{-4}$	0.996	$1.795 \times 10^{-2}$	$9.104 \times 10^{-3}$
0.5667	0.1500	$2.833 \times 10^{-4}$	0.991	$4.080 \times 10^{-2}$	$1.190 \times 10^{-2}$
0.5833	0.1500	$3.460 \times 10^{-4}$	0.983	$7.359 \times 10^{-2}$	$1.672 \times 10^{-2}$
0.6000	0.1500	$4.490 \times 10^{-4}$	0.976	0.105	$2.446 \times 10^{-2}$
0.6167	0.1500	$5.365 \times 10^{-4}$	0.972	0.125	$3.088 \times 10^{-2}$
0.6333	0.1500	$5.915 \times 10^{-4}$	0.970	0.132	$3.496 \times 10^{-2}$
0.6500	0.1500	$6.078 \times 10^{-4}$	0.970	0.133	$3.627 \times 10^{-2}$
0.6667	0.1500	$6.032 \times 10^{-4}$	0.969	0.133	$3.608 \times 10^{-2}$
0.6833	0.1500	$6.184 \times 10^{-4}$	0.966	0.139	$3.844 \times 10^{-2}$
0.7000	0.1500	$7.009 \times 10^{-4}$	0.952	0.164	$4.933 \times 10^{-2}$
0.7167	0.1500	$1.060 \times 10^{-3}$	0.862	0.254	$1.438 \times 10^{-1}$
0.7333	0.1500	$2.087 \times 10^{-3}$	0.467	0.307	$8.269 \times 10^{-1}$
0.7500	0.1500	$2.332 \times 10^{-3}$	0.155	0.134	$8.092 \times 10^{-1}$
0.7667	0.1500	$3.716 \times 10^{-3}$	$4.276 \times 10^{-2}$	$7.486 \times 10^{-2}$	$7.754 \times 10^{-1}$
0.7833	0.1500	$5.066 \times 10^{-3}$	$2.359 \times 10^{-2}$	$9.133 \times 10^{-2}$	$7.456 \times 10^{-1}$
0.8000	0.1500	$4.979 \times 10^{-3}$	$3.637 \times 10^{-2}$	0.132	$6.268 \times 10^{-1}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8167	0.1500	$2.047 \times 10^{-3}$	$-8.602 \times 10^{-3}$	0.283	$9.711 \times 10^{-2}$
0.8333	0.1500	$1.832 \times 10^{-3}$	$-4.885 \times 10^{-4}$	0.337	$1.057 \times 10^{-2}$
0.8500	0.1500	$1.567 \times 10^{-3}$	$3.841 \times 10^{-2}$	0.336	$8.320 \times 10^{-3}$
0.8667	0.1500	$1.475 \times 10^{-3}$	$7.645 \times 10^{-2}$	0.329	$7.767 \times 10^{-3}$
0.8833	0.1500	$1.322 \times 10^{-3}$	0.110	0.319	$6.884 \times 10^{-3}$
0.9000	0.1500	$1.144 \times 10^{-3}$	0.140	0.307	$5.769 \times 10^{-3}$
0.9167	0.1500	$9.564 \times 10^{-4}$	0.166	0.294	$4.622 \times 10^{-3}$
0.9333	0.1500	$8.068 \times 10^{-4}$	0.189	0.280	$3.628 \times 10^{-3}$
0.9500	0.1500	$6.256 \times 10^{-4}$	0.208	0.266	$2.609 \times 10^{-3}$
0.9667	0.1500	$4.617 \times 10^{-4}$	0.225	0.253	$1.817 \times 10^{-3}$
0.9833	0.1500	$3.589 \times 10^{-4}$	0.240	0.239	$1.348 \times 10^{-3}$
1.0000	0.1500	$2.661 \times 10^{-4}$	0.249	0.228	$1.204 \times 10^{-3}$
0.0000	0.1667	$2.257 \times 10^{-4}$	1.000	$-3.998 \times 10^{-4}$	$7.439 \times 10^{-3}$
0.0167	0.1667	$2.243 \times 10^{-4}$	1.000	$-4.144 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.0333	0.1667	$2.244 \times 10^{-4}$	1.000	$-2.806 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.0500	0.1667	$2.237 \times 10^{-4}$	1.000	$9.660 \times 10^{-5}$	$7.359 \times 10^{-3}$
0.0667	0.1667	$2.231 \times 10^{-4}$	1.000	$6.316 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.0833	0.1667	$2.234 \times 10^{-4}$	1.000	$1.345 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.1000	0.1667	$2.229 \times 10^{-4}$	1.000	$4.501 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.1167	0.1667	$2.236 \times 10^{-4}$	1.000	$6.326 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.1333	0.1667	$2.235 \times 10^{-4}$	1.000	$4.935 \times 10^{-4}$	$7.364 \times 10^{-3}$
0.1500	0.1667	$2.231 \times 10^{-4}$	1.000	$3.633 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.1667	0.1667	$2.233 \times 10^{-4}$	1.000	$7.177 \times 10^{-5}$	$7.363 \times 10^{-3}$
0.1833	0.1667	$2.239 \times 10^{-4}$	1.000	$-2.812 \times 10^{-5}$	$7.357 \times 10^{-3}$
0.2000	0.1667	$2.229 \times 10^{-4}$	1.001	$-2.964 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.2167	0.1667	$2.227 \times 10^{-4}$	1.000	$1.871 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.2333	0.1667	$2.228 \times 10^{-4}$	1.000	$-1.165 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.2500	0.1667	$2.223 \times 10^{-4}$	1.000	$-2.860 \times 10^{-4}$	$7.320 \times 10^{-3}$
0.2667	0.1667	$2.216 \times 10^{-4}$	1.000	$-5.512 \times 10^{-5}$	$7.280 \times 10^{-3}$
0.2833	0.1667	$2.212 \times 10^{-4}$	1.000	$-3.185 \times 10^{-4}$	$7.295 \times 10^{-3}$
0.3000	0.1667	$2.221 \times 10^{-4}$	1.000	$-4.572 \times 10^{-4}$	$7.305 \times 10^{-3}$
0.3167	0.1667	$2.230 \times 10^{-4}$	1.000	$-2.429 \times 10^{-4}$	$7.333 \times 10^{-3}$
0.3333	0.1667	$2.217 \times 10^{-4}$	1.000	$3.697 \times 10^{-5}$	$7.296 \times 10^{-3}$
0.3500	0.1667	$2.216 \times 10^{-4}$	1.000	$3.047 \times 10^{-4}$	$7.331 \times 10^{-3}$
0.3667	0.1667	$2.222 \times 10^{-4}$	1.001	$3.139 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.3833	0.1667	$2.229 \times 10^{-4}$	1.000	$4.833 \times 10^{-4}$	$7.365 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.4000	0.1667	$2.227 \times 10^{-4}$	1.001	$6.087 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.4167	0.1667	$2.228 \times 10^{-4}$	1.001	$5.479 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.4333	0.1667	$2.231 \times 10^{-4}$	1.000	$9.130 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.4500	0.1667	$2.224 \times 10^{-4}$	1.000	$-5.443 \times 10^{-5}$	$7.347 \times 10^{-3}$
0.4667	0.1667	$2.238 \times 10^{-4}$	1.000	$4.766 \times 10^{-5}$	$7.378 \times 10^{-3}$
0.4833	0.1667	$2.228 \times 10^{-4}$	1.000	$-3.727 \times 10^{-4}$	$7.332 \times 10^{-3}$
0.5000	0.1667	$2.236 \times 10^{-4}$	0.999	$-4.728 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.5167	0.1667	$2.242 \times 10^{-4}$	1.000	$-8.419 \times 10^{-5}$	$7.431 \times 10^{-3}$
0.5333	0.1667	$2.246 \times 10^{-4}$	1.000	$-3.910 \times 10^{-4}$	$7.423 \times 10^{-3}$
0.5500	0.1667	$2.250 \times 10^{-4}$	1.000	$-6.451 \times 10^{-5}$	$7.427 \times 10^{-3}$
0.5667	0.1667	$2.245 \times 10^{-4}$	1.001	$2.224 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.5833	0.1667	$2.240 \times 10^{-4}$	1.000	$3.573 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.6000	0.1667	$2.278 \times 10^{-4}$	1.000	$3.052 \times 10^{-3}$	$7.682 \times 10^{-3}$
0.6167	0.1667	$2.329 \times 10^{-4}$	0.999	$8.374 \times 10^{-3}$	$8.154 \times 10^{-3}$
0.6333	0.1667	$2.600 \times 10^{-4}$	0.994	$2.742 \times 10^{-2}$	$1.015 \times 10^{-2}$
0.6500	0.1667	$3.082 \times 10^{-4}$	0.987	$5.649 \times 10^{-2}$	$1.380 \times 10^{-2}$
0.6667	0.1667	$3.971 \times 10^{-4}$	0.980	$9.026 \times 10^{-2}$	$2.039 \times 10^{-2}$
0.6833	0.1667	$5.045 \times 10^{-4}$	0.975	0.118	$2.819 \times 10^{-2}$
0.7000	0.1667	$5.755 \times 10^{-4}$	0.972	0.130	$3.322 \times 10^{-2}$
0.7167	0.1667	$6.054 \times 10^{-4}$	0.969	0.135	$3.604 \times 10^{-2}$
0.7333	0.1667	$8.670 \times 10^{-4}$	0.875	0.229	$1.151 \times 10^{-1}$
0.7500	0.1667	$2.341 \times 10^{-3}$	0.564	0.375	$7.583 \times 10^{-1}$
0.7667	0.1667	$2.015 \times 10^{-3}$	0.298	0.216	$7.803 \times 10^{-1}$
0.7833	0.1667	$3.034 \times 10^{-3}$	0.108	0.117	$7.840 \times 10^{-1}$
0.8000	0.1667	$4.639 \times 10^{-3}$	$6.697 \times 10^{-2}$	0.106	$7.163 \times 10^{-1}$
0.8167	0.1667	$5.119 \times 10^{-3}$	$7.562 \times 10^{-2}$	0.126	$6.385 \times 10^{-1}$
0.8333	0.1667	$4.269 \times 10^{-3}$	$8.409 \times 10^{-2}$	0.173	$4.431 \times 10^{-1}$
0.8500	0.1667	$1.451 \times 10^{-3}$	$4.832 \times 10^{-2}$	0.307	$4.119 \times 10^{-2}$
0.8667	0.1667	$1.253 \times 10^{-3}$	$6.967 \times 10^{-2}$	0.331	$6.158 \times 10^{-3}$
0.8833	0.1667	$1.158 \times 10^{-3}$	0.101	0.322	$5.531 \times 10^{-3}$
0.9000	0.1667	$1.028 \times 10^{-3}$	0.128	0.313	$4.853 \times 10^{-3}$
0.9167	0.1667	$8.610 \times 10^{-4}$	0.153	0.301	$3.898 \times 10^{-3}$
0.9333	0.1667	$7.425 \times 10^{-4}$	0.176	0.289	$3.172 \times 10^{-3}$
0.9500	0.1667	$6.257 \times 10^{-4}$	0.195	0.277	$2.491 \times 10^{-3}$
0.9667	0.1667	$4.876 \times 10^{-4}$	0.212	0.264	$1.832 \times 10^{-3}$
0.9833	0.1667	$3.738 \times 10^{-4}$	0.227	0.252	$1.323 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
1.0000	0.1667	$2.896 \times 10^{-4}$	0.241	0.239	$1.012 \times 10^{-3}$
0.0000	0.1833	$2.221 \times 10^{-4}$	1.000	$1.522 \times 10^{-4}$	$7.335 \times 10^{-3}$
0.0167	0.1833	$2.227 \times 10^{-4}$	1.000	$-1.098 \times 10^{-5}$	$7.332 \times 10^{-3}$
0.0333	0.1833	$2.219 \times 10^{-4}$	1.000	$2.697 \times 10^{-4}$	$7.302 \times 10^{-3}$
0.0500	0.1833	$2.227 \times 10^{-4}$	1.000	$6.406 \times 10^{-5}$	$7.338 \times 10^{-3}$
0.0667	0.1833	$2.225 \times 10^{-4}$	1.000	$8.865 \times 10^{-5}$	$7.330 \times 10^{-3}$
0.0833	0.1833	$2.234 \times 10^{-4}$	0.999	$3.517 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.1000	0.1833	$2.232 \times 10^{-4}$	1.000	$-9.108 \times 10^{-5}$	$7.358 \times 10^{-3}$
0.1167	0.1833	$2.236 \times 10^{-4}$	1.000	$-5.074 \times 10^{-5}$	$7.378 \times 10^{-3}$
0.1333	0.1833	$2.230 \times 10^{-4}$	1.000	$2.347 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.1500	0.1833	$2.232 \times 10^{-4}$	1.000	$3.136 \times 10^{-5}$	$7.351 \times 10^{-3}$
0.1667	0.1833	$2.228 \times 10^{-4}$	1.000	$3.304 \times 10^{-4}$	$7.319 \times 10^{-3}$
0.1833	0.1833	$2.234 \times 10^{-4}$	1.000	$6.129 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.2000	0.1833	$2.232 \times 10^{-4}$	0.999	$2.666 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.2167	0.1833	$2.222 \times 10^{-4}$	0.999	$5.120 \times 10^{-4}$	$7.302 \times 10^{-3}$
0.2333	0.1833	$2.229 \times 10^{-4}$	0.999	$3.609 \times 10^{-4}$	$7.326 \times 10^{-3}$
0.2500	0.1833	$2.235 \times 10^{-4}$	1.000	$4.911 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.2667	0.1833	$2.239 \times 10^{-4}$	1.000	$2.836 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.2833	0.1833	$2.228 \times 10^{-4}$	1.000	$4.028 \times 10^{-4}$	$7.335 \times 10^{-3}$
0.3000	0.1833	$2.234 \times 10^{-4}$	1.000	$-6.075 \times 10^{-5}$	$7.347 \times 10^{-3}$
0.3167	0.1833	$2.223 \times 10^{-4}$	1.000	$9.738 \times 10^{-5}$	$7.308 \times 10^{-3}$
0.3333	0.1833	$2.234 \times 10^{-4}$	1.000	$-1.161 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.3500	0.1833	$2.232 \times 10^{-4}$	1.000	$-3.964 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.3667	0.1833	$2.235 \times 10^{-4}$	1.000	$-9.097 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.3833	0.1833	$2.235 \times 10^{-4}$	1.000	$-5.409 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.4000	0.1833	$2.235 \times 10^{-4}$	1.000	$-1.606 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.4167	0.1833	$2.236 \times 10^{-4}$	1.000	$-9.714 \times 10^{-5}$	$7.342 \times 10^{-3}$
0.4333	0.1833	$2.229 \times 10^{-4}$	1.000	$-5.691 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.4500	0.1833	$2.233 \times 10^{-4}$	1.000	$-3.791 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.4667	0.1833	$2.246 \times 10^{-4}$	0.999	$9.728 \times 10^{-5}$	$7.428 \times 10^{-3}$
0.4833	0.1833	$2.241 \times 10^{-4}$	1.000	$9.870 \times 10^{-5}$	$7.407 \times 10^{-3}$
0.5000	0.1833	$2.243 \times 10^{-4}$	1.000	$3.164 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.5167	0.1833	$2.254 \times 10^{-4}$	1.000	$-5.428 \times 10^{-5}$	$7.436 \times 10^{-3}$
0.5333	0.1833	$2.238 \times 10^{-4}$	1.001	$1.714 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.5500	0.1833	$2.244 \times 10^{-4}$	1.000	$-5.387 \times 10^{-4}$	$7.426 \times 10^{-3}$
0.5667	0.1833	$2.252 \times 10^{-4}$	1.000	$-2.478 \times 10^{-4}$	$7.457 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.5833	0.1833	$2.255 \times 10^{-4}$	1.000	$-1.750 \times 10^{-4}$	$7.459 \times 10^{-3}$
0.6000	0.1833	$2.250 \times 10^{-4}$	1.000	$-9.415 \times 10^{-4}$	$7.423 \times 10^{-3}$
0.6167	0.1833	$2.252 \times 10^{-4}$	1.000	$-4.035 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.6333	0.1833	$2.247 \times 10^{-4}$	1.000	$2.069 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.6500	0.1833	$2.255 \times 10^{-4}$	1.000	$4.889 \times 10^{-4}$	$7.423 \times 10^{-3}$
0.6667	0.1833	$2.278 \times 10^{-4}$	1.000	$1.672 \times 10^{-3}$	$7.526 \times 10^{-3}$
0.6833	0.1833	$2.300 \times 10^{-4}$	0.999	$4.484 \times 10^{-3}$	$7.705 \times 10^{-3}$
0.7000	0.1833	$2.425 \times 10^{-4}$	0.997	$1.447 \times 10^{-2}$	$8.736 \times 10^{-3}$
0.7167	0.1833	$2.748 \times 10^{-4}$	0.993	$3.501 \times 10^{-2}$	$1.106 \times 10^{-2}$
0.7333	0.1833	$3.437 \times 10^{-4}$	0.985	$6.885 \times 10^{-2}$	$1.607 \times 10^{-2}$
0.7500	0.1833	$6.531 \times 10^{-4}$	0.860	0.224	$1.017 \times 10^{-1}$
0.7667	0.1833	$2.323 \times 10^{-3}$	0.591	0.415	$6.895 \times 10^{-1}$
0.7833	0.1833	$1.962 \times 10^{-3}$	0.400	0.295	$7.284 \times 10^{-1}$
0.8000	0.1833	$2.433 \times 10^{-3}$	0.187	0.171	$7.149 \times 10^{-1}$
0.8167	0.1833	$3.770 \times 10^{-3}$	0.114	0.127	$6.401 \times 10^{-1}$
0.8333	0.1833	$4.624 \times 10^{-3}$	0.107	0.134	$5.601 \times 10^{-1}$
0.8500	0.1833	$4.386 \times 10^{-3}$	0.127	0.146	$4.538 \times 10^{-1}$
0.8667	0.1833	$3.438 \times 10^{-3}$	0.133	0.160	$3.226 \times 10^{-1}$
0.8833	0.1833	$1.566 \times 10^{-3}$	0.122	0.246	$8.461 \times 10^{-2}$
0.9000	0.1833	$9.075 \times 10^{-4}$	0.120	0.311	$7.269 \times 10^{-3}$
0.9167	0.1833	$7.935 \times 10^{-4}$	0.143	0.306	$3.456 \times 10^{-3}$
0.9333	0.1833	$6.736 \times 10^{-4}$	0.164	0.296	$2.750 \times 10^{-3}$
0.9500	0.1833	$5.878 \times 10^{-4}$	0.184	0.285	$2.239 \times 10^{-3}$
0.9667	0.1833	$4.957 \times 10^{-4}$	0.201	0.274	$1.784 \times 10^{-3}$
0.9833	0.1833	$3.901 \times 10^{-4}$	0.216	0.261	$1.322 \times 10^{-3}$
1.0000	0.1833	$3.053 \times 10^{-4}$	0.230	0.250	$9.819 \times 10^{-4}$
0.0000	0.2000	$2.248 \times 10^{-4}$	1.000	$-2.903 \times 10^{-5}$	$7.396 \times 10^{-3}$
0.0167	0.2000	$2.237 \times 10^{-4}$	1.000	$4.593 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.0333	0.2000	$2.245 \times 10^{-4}$	1.000	$1.024 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.0500	0.2000	$2.241 \times 10^{-4}$	1.000	$5.594 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.0667	0.2000	$2.242 \times 10^{-4}$	1.000	$4.025 \times 10^{-4}$	$7.386 \times 10^{-3}$
0.0833	0.2000	$2.245 \times 10^{-4}$	1.000	$5.632 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.1000	0.2000	$2.251 \times 10^{-4}$	1.000	$3.884 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.1167	0.2000	$2.237 \times 10^{-4}$	1.000	$3.778 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.1333	0.2000	$2.249 \times 10^{-4}$	1.000	$2.823 \times 10^{-4}$	$7.413 \times 10^{-3}$
0.1500	0.2000	$2.242 \times 10^{-4}$	1.000	$-5.644 \times 10^{-5}$	$7.387 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.1667	0.2000	$2.242 \times 10^{-4}$	1.000	$-4.359 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.1833	0.2000	$2.240 \times 10^{-4}$	1.001	$-6.487 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.2000	0.2000	$2.234 \times 10^{-4}$	1.001	$-7.302 \times 10^{-4}$	$7.356 \times 10^{-3}$
0.2167	0.2000	$2.239 \times 10^{-4}$	1.001	$-7.005 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.2333	0.2000	$2.239 \times 10^{-4}$	1.001	$-3.676 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.2500	0.2000	$2.236 \times 10^{-4}$	1.001	$-6.882 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.2667	0.2000	$2.238 \times 10^{-4}$	1.001	$-8.715 \times 10^{-5}$	$7.367 \times 10^{-3}$
0.2833	0.2000	$2.240 \times 10^{-4}$	1.001	$-4.544 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.3000	0.2000	$2.243 \times 10^{-4}$	1.001	$-4.119 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.3167	0.2000	$2.240 \times 10^{-4}$	1.001	$-1.306 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.3333	0.2000	$2.242 \times 10^{-4}$	1.000	$-6.242 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.3500	0.2000	$2.238 \times 10^{-4}$	1.001	$-7.311 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.3667	0.2000	$2.242 \times 10^{-4}$	1.001	$-5.530 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.3833	0.2000	$2.242 \times 10^{-4}$	1.000	$-8.061 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.4000	0.2000	$2.234 \times 10^{-4}$	1.000	$-1.184 \times 10^{-3}$	$7.354 \times 10^{-3}$
0.4167	0.2000	$2.240 \times 10^{-4}$	1.000	$-8.286 \times 10^{-4}$	$7.362 \times 10^{-3}$
0.4333	0.2000	$2.248 \times 10^{-4}$	1.000	$-8.628 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.4500	0.2000	$2.248 \times 10^{-4}$	1.001	$-2.539 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.4667	0.2000	$2.249 \times 10^{-4}$	1.001	$-7.245 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.4833	0.2000	$2.245 \times 10^{-4}$	1.001	$-4.172 \times 10^{-4}$	$7.405 \times 10^{-3}$
0.5000	0.2000	$2.247 \times 10^{-4}$	1.000	$-3.158 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.5167	0.2000	$2.239 \times 10^{-4}$	1.000	$6.855 \times 10^{-5}$	$7.373 \times 10^{-3}$
0.5333	0.2000	$2.250 \times 10^{-4}$	1.000	$-1.617 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.5500	0.2000	$2.252 \times 10^{-4}$	1.001	$-2.776 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.5667	0.2000	$2.243 \times 10^{-4}$	1.001	$7.790 \times 10^{-5}$	$7.396 \times 10^{-3}$
0.5833	0.2000	$2.250 \times 10^{-4}$	1.000	$-2.631 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.6000	0.2000	$2.246 \times 10^{-4}$	1.001	$-3.126 \times 10^{-4}$	$7.413 \times 10^{-3}$
0.6167	0.2000	$2.238 \times 10^{-4}$	1.001	$-5.284 \times 10^{-5}$	$7.391 \times 10^{-3}$
0.6333	0.2000	$2.244 \times 10^{-4}$	1.000	$-4.644 \times 10^{-4}$	$7.411 \times 10^{-3}$
0.6500	0.2000	$2.244 \times 10^{-4}$	1.000	$-1.174 \times 10^{-4}$	$7.420 \times 10^{-3}$
0.6667	0.2000	$2.235 \times 10^{-4}$	1.001	$-1.501 \times 10^{-4}$	$7.386 \times 10^{-3}$
0.6833	0.2000	$2.238 \times 10^{-4}$	1.001	$-1.005 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.7000	0.2000	$2.253 \times 10^{-4}$	1.000	$2.765 \times 10^{-5}$	$7.462 \times 10^{-3}$
0.7167	0.2000	$2.248 \times 10^{-4}$	1.000	$5.246 \times 10^{-4}$	$7.472 \times 10^{-3}$
0.7333	0.2000	$2.244 \times 10^{-4}$	1.001	$9.717 \times 10^{-4}$	$7.430 \times 10^{-3}$
0.7500	0.2000	$2.263 \times 10^{-4}$	1.000	$1.676 \times 10^{-3}$	$7.444 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7667	0.2000	$4.641 \times 10^{-4}$	0.771	0.237	$1.115 \times 10^{-1}$
0.7833	0.2000	$1.952 \times 10^{-3}$	0.563	0.462	$5.690 \times 10^{-1}$
0.8000	0.2000	$1.805 \times 10^{-3}$	0.449	0.365	$6.137 \times 10^{-1}$
0.8167	0.2000	$1.966 \times 10^{-3}$	0.258	0.227	$5.967 \times 10^{-1}$
0.8333	0.2000	$2.897 \times 10^{-3}$	0.160	0.160	$5.277 \times 10^{-1}$
0.8500	0.2000	$3.711 \times 10^{-3}$	0.144	0.145	$4.435 \times 10^{-1}$
0.8667	0.2000	$3.756 \times 10^{-3}$	0.150	0.144	$3.731 \times 10^{-1}$
0.8833	0.2000	$3.431 \times 10^{-3}$	0.160	0.145	$3.114 \times 10^{-1}$
0.9000	0.2000	$3.059 \times 10^{-3}$	0.172	0.144	$2.619 \times 10^{-1}$
0.9167	0.2000	$2.298 \times 10^{-3}$	0.180	0.148	$1.867 \times 10^{-1}$
0.9333	0.2000	$1.367 \times 10^{-3}$	0.182	0.178	$9.217 \times 10^{-2}$
0.9500	0.2000	$7.792 \times 10^{-4}$	0.184	0.225	$3.441 \times 10^{-2}$
0.9667	0.2000	$5.365 \times 10^{-4}$	0.194	0.255	$1.168 \times 10^{-2}$
0.9833	0.2000	$4.233 \times 10^{-4}$	0.206	0.255	$5.886 \times 10^{-3}$
1.0000	0.2000	$3.352 \times 10^{-4}$	0.218	0.246	$4.405 \times 10^{-3}$
0.0000	0.2167	$2.221 \times 10^{-4}$	1.000	$-2.178 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.0167	0.2167	$2.222 \times 10^{-4}$	1.000	$-1.279 \times 10^{-4}$	$7.321 \times 10^{-3}$
0.0333	0.2167	$2.227 \times 10^{-4}$	1.000	$3.032 \times 10^{-5}$	$7.333 \times 10^{-3}$
0.0500	0.2167	$2.232 \times 10^{-4}$	1.000	$-5.731 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.0667	0.2167	$2.229 \times 10^{-4}$	1.000	$-7.606 \times 10^{-4}$	$7.327 \times 10^{-3}$
0.0833	0.2167	$2.220 \times 10^{-4}$	1.001	$-9.338 \times 10^{-4}$	$7.285 \times 10^{-3}$
0.1000	0.2167	$2.227 \times 10^{-4}$	1.001	$-1.591 \times 10^{-3}$	$7.318 \times 10^{-3}$
0.1167	0.2167	$2.238 \times 10^{-4}$	1.001	$-6.338 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.1333	0.2167	$2.232 \times 10^{-4}$	1.000	$-3.702 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.1500	0.2167	$2.227 \times 10^{-4}$	1.000	$-1.729 \times 10^{-5}$	$7.353 \times 10^{-3}$
0.1667	0.2167	$2.227 \times 10^{-4}$	1.000	$2.229 \times 10^{-4}$	$7.338 \times 10^{-3}$
0.1833	0.2167	$2.239 \times 10^{-4}$	1.000	$1.256 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.2000	0.2167	$2.249 \times 10^{-4}$	1.000	$7.052 \times 10^{-4}$	$7.457 \times 10^{-3}$
0.2167	0.2167	$2.251 \times 10^{-4}$	1.000	$3.443 \times 10^{-4}$	$7.453 \times 10^{-3}$
0.2333	0.2167	$2.233 \times 10^{-4}$	1.000	$5.458 \times 10^{-5}$	$7.384 \times 10^{-3}$
0.2500	0.2167	$2.237 \times 10^{-4}$	1.000	$7.283 \times 10^{-5}$	$7.406 \times 10^{-3}$
0.2667	0.2167	$2.238 \times 10^{-4}$	0.999	$-4.979 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.2833	0.2167	$2.234 \times 10^{-4}$	0.999	$-2.852 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.3000	0.2167	$2.234 \times 10^{-4}$	1.000	$-9.206 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.3167	0.2167	$2.225 \times 10^{-4}$	1.000	$-6.360 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.3333	0.2167	$2.221 \times 10^{-4}$	1.000	$4.616 \times 10^{-5}$	$7.320 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.3500	0.2167	$2.225 \times 10^{-4}$	1.000	$-3.445 \times 10^{-5}$	$7.329 \times 10^{-3}$
0.3667	0.2167	$2.240 \times 10^{-4}$	0.999	$-2.789 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.3833	0.2167	$2.234 \times 10^{-4}$	1.000	$-3.504 \times 10^{-4}$	$7.411 \times 10^{-3}$
0.4000	0.2167	$2.238 \times 10^{-4}$	1.000	$-1.173 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.4167	0.2167	$2.223 \times 10^{-4}$	1.000	$-3.234 \times 10^{-4}$	$7.334 \times 10^{-3}$
0.4333	0.2167	$2.223 \times 10^{-4}$	1.000	$-5.048 \times 10^{-4}$	$7.318 \times 10^{-3}$
0.4500	0.2167	$2.220 \times 10^{-4}$	1.000	$-6.215 \times 10^{-4}$	$7.319 \times 10^{-3}$
0.4667	0.2167	$2.218 \times 10^{-4}$	1.000	$-2.647 \times 10^{-4}$	$7.315 \times 10^{-3}$
0.4833	0.2167	$2.222 \times 10^{-4}$	1.000	$-3.537 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.5000	0.2167	$2.215 \times 10^{-4}$	1.001	$-9.215 \times 10^{-5}$	$7.308 \times 10^{-3}$
0.5167	0.2167	$2.219 \times 10^{-4}$	1.000	$-4.729 \times 10^{-4}$	$7.332 \times 10^{-3}$
0.5333	0.2167	$2.216 \times 10^{-4}$	1.000	$-7.873 \times 10^{-4}$	$7.291 \times 10^{-3}$
0.5500	0.2167	$2.215 \times 10^{-4}$	1.000	$1.967 \times 10^{-5}$	$7.292 \times 10^{-3}$
0.5667	0.2167	$2.211 \times 10^{-4}$	1.000	$4.347 \times 10^{-4}$	$7.304 \times 10^{-3}$
0.5833	0.2167	$2.217 \times 10^{-4}$	1.000	$5.490 \times 10^{-4}$	$7.313 \times 10^{-3}$
0.6000	0.2167	$2.222 \times 10^{-4}$	1.000	$5.569 \times 10^{-4}$	$7.327 \times 10^{-3}$
0.6167	0.2167	$2.219 \times 10^{-4}$	1.000	$3.398 \times 10^{-4}$	$7.318 \times 10^{-3}$
0.6333	0.2167	$2.223 \times 10^{-4}$	1.001	$1.344 \times 10^{-4}$	$7.318 \times 10^{-3}$
0.6500	0.2167	$2.235 \times 10^{-4}$	1.000	$2.971 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.6667	0.2167	$2.242 \times 10^{-4}$	1.000	$3.180 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.6833	0.2167	$2.245 \times 10^{-4}$	1.000	$2.117 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.7000	0.2167	$2.234 \times 10^{-4}$	1.000	$-1.262 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.7167	0.2167	$2.236 \times 10^{-4}$	1.000	$-9.663 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.7333	0.2167	$2.242 \times 10^{-4}$	1.000	$-1.065 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.7500	0.2167	$2.256 \times 10^{-4}$	1.000	$-2.943 \times 10^{-4}$	$7.462 \times 10^{-3}$
0.7667	0.2167	$2.265 \times 10^{-4}$	0.997	$2.562 \times 10^{-3}$	$8.198 \times 10^{-3}$
0.7833	0.2167	$5.935 \times 10^{-4}$	0.650	0.316	$1.972 \times 10^{-1}$
0.8000	0.2167	$1.710 \times 10^{-3}$	0.536	0.469	$5.242 \times 10^{-1}$
0.8167	0.2167	$1.634 \times 10^{-3}$	0.463	0.398	$5.209 \times 10^{-1}$
0.8333	0.2167	$1.654 \times 10^{-3}$	0.309	0.270	$4.931 \times 10^{-1}$
0.8500	0.2167	$2.186 \times 10^{-3}$	0.211	0.188	$4.292 \times 10^{-1}$
0.8667	0.2167	$2.904 \times 10^{-3}$	0.177	0.156	$3.653 \times 10^{-1}$
0.8833	0.2167	$3.130 \times 10^{-3}$	0.174	0.146	$3.060 \times 10^{-1}$
0.9000	0.2167	$2.966 \times 10^{-3}$	0.180	0.144	$2.523 \times 10^{-1}$
0.9167	0.2167	$2.682 \times 10^{-3}$	0.188	0.140	$2.163 \times 10^{-1}$
0.9333	0.2167	$2.315 \times 10^{-3}$	0.197	0.135	$1.779 \times 10^{-1}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9500	0.2167	$2.008 \times 10^{-3}$	0.206	0.127	$1.505 \times 10^{-1}$
0.9667	0.2167	$1.738 \times 10^{-3}$	0.211	0.118	$1.298 \times 10^{-1}$
0.9833	0.2167	$1.482 \times 10^{-3}$	0.218	0.110	$1.088 \times 10^{-1}$
1.0000	0.2167	$1.271 \times 10^{-3}$	0.225	$9.862 \times 10^{-2}$	$9.261 \times 10^{-2}$
0.0000	0.2333	$2.230 \times 10^{-4}$	1.000	$-2.635 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.0167	0.2333	$2.237 \times 10^{-4}$	1.000	$-8.834 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.0333	0.2333	$2.232 \times 10^{-4}$	1.000	$4.042 \times 10^{-5}$	$7.362 \times 10^{-3}$
0.0500	0.2333	$2.226 \times 10^{-4}$	0.999	$-4.334 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.0667	0.2333	$2.225 \times 10^{-4}$	0.999	$-2.476 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.0833	0.2333	$2.224 \times 10^{-4}$	0.999	$4.620 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.1000	0.2333	$2.233 \times 10^{-4}$	0.999	$3.355 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.1167	0.2333	$2.228 \times 10^{-4}$	0.999	$2.164 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.1333	0.2333	$2.231 \times 10^{-4}$	1.000	$4.089 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.1500	0.2333	$2.233 \times 10^{-4}$	1.000	$1.242 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.1667	0.2333	$2.240 \times 10^{-4}$	0.999	$-2.514 \times 10^{-5}$	$7.373 \times 10^{-3}$
0.1833	0.2333	$2.238 \times 10^{-4}$	0.999	$-1.738 \times 10^{-5}$	$7.352 \times 10^{-3}$
0.2000	0.2333	$2.230 \times 10^{-4}$	1.000	$-5.624 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.2167	0.2333	$2.234 \times 10^{-4}$	1.000	$-9.033 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.2333	0.2333	$2.235 \times 10^{-4}$	1.000	$-2.920 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.2500	0.2333	$2.230 \times 10^{-4}$	1.000	$-1.564 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.2667	0.2333	$2.240 \times 10^{-4}$	1.000	$4.627 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.2833	0.2333	$2.236 \times 10^{-4}$	1.000	$6.606 \times 10^{-5}$	$7.351 \times 10^{-3}$
0.3000	0.2333	$2.230 \times 10^{-4}$	1.000	$-1.155 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.3167	0.2333	$2.230 \times 10^{-4}$	1.000	$-3.984 \times 10^{-4}$	$7.333 \times 10^{-3}$
0.3333	0.2333	$2.236 \times 10^{-4}$	0.999	$-8.952 \times 10^{-5}$	$7.358 \times 10^{-3}$
0.3500	0.2333	$2.251 \times 10^{-4}$	1.000	$3.607 \times 10^{-4}$	$7.427 \times 10^{-3}$
0.3667	0.2333	$2.256 \times 10^{-4}$	1.000	$2.365 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.3833	0.2333	$2.240 \times 10^{-4}$	1.000	$-6.683 \times 10^{-5}$	$7.396 \times 10^{-3}$
0.4000	0.2333	$2.234 \times 10^{-4}$	1.000	$-2.147 \times 10^{-5}$	$7.364 \times 10^{-3}$
0.4167	0.2333	$2.245 \times 10^{-4}$	1.000	$-4.352 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.4333	0.2333	$2.256 \times 10^{-4}$	1.000	$-7.486 \times 10^{-4}$	$7.425 \times 10^{-3}$
0.4500	0.2333	$2.257 \times 10^{-4}$	0.999	$-1.023 \times 10^{-4}$	$7.404 \times 10^{-3}$
0.4667	0.2333	$2.246 \times 10^{-4}$	0.999	$3.114 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.4833	0.2333	$2.241 \times 10^{-4}$	0.999	$-1.093 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.5000	0.2333	$2.240 \times 10^{-4}$	0.999	$-6.128 \times 10^{-7}$	$7.338 \times 10^{-3}$
0.5167	0.2333	$2.239 \times 10^{-4}$	0.999	$-1.782 \times 10^{-4}$	$7.350 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.5333	0.2333	$2.243 \times 10^{-4}$	0.999	$2.218 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.5500	0.2333	$2.234 \times 10^{-4}$	0.999	$2.849 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.5667	0.2333	$2.233 \times 10^{-4}$	1.000	$-3.333 \times 10^{-4}$	$7.305 \times 10^{-3}$
0.5833	0.2333	$2.229 \times 10^{-4}$	1.000	$-3.018 \times 10^{-4}$	$7.304 \times 10^{-3}$
0.6000	0.2333	$2.235 \times 10^{-4}$	1.000	$-1.427 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.6167	0.2333	$2.234 \times 10^{-4}$	1.000	$-1.413 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.6333	0.2333	$2.219 \times 10^{-4}$	1.000	$-7.060 \times 10^{-4}$	$7.327 \times 10^{-3}$
0.6500	0.2333	$2.238 \times 10^{-4}$	1.000	$-2.686 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.6667	0.2333	$2.235 \times 10^{-4}$	1.000	$-5.135 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.6833	0.2333	$2.238 \times 10^{-4}$	1.000	$-2.837 \times 10^{-4}$	$7.362 \times 10^{-3}$
0.7000	0.2333	$2.240 \times 10^{-4}$	1.000	$1.234 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.7167	0.2333	$2.239 \times 10^{-4}$	1.000	$-1.032 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.7333	0.2333	$2.244 \times 10^{-4}$	1.000	$2.255 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.7500	0.2333	$2.238 \times 10^{-4}$	1.000	$-5.319 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.7667	0.2333	$2.247 \times 10^{-4}$	1.000	$-6.140 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.7833	0.2333	$2.282 \times 10^{-4}$	0.988	$8.413 \times 10^{-3}$	$1.096 \times 10^{-2}$
0.8000	0.2333	$8.209 \times 10^{-4}$	0.576	0.371	$2.975 \times 10^{-1}$
0.8167	0.2333	$1.539 \times 10^{-3}$	0.526	0.460	$4.903 \times 10^{-1}$
0.8333	0.2333	$1.505 \times 10^{-3}$	0.479	0.411	$4.649 \times 10^{-1}$
0.8500	0.2333	$1.417 \times 10^{-3}$	0.360	0.304	$4.158 \times 10^{-1}$
0.8667	0.2333	$1.701 \times 10^{-3}$	0.261	0.215	$3.592 \times 10^{-1}$
0.8833	0.2333	$2.228 \times 10^{-3}$	0.213	0.169	$3.063 \times 10^{-1}$
0.9000	0.2333	$2.584 \times 10^{-3}$	0.198	0.148	$2.618 \times 10^{-1}$
0.9167	0.2333	$2.559 \times 10^{-3}$	0.198	0.140	$2.183 \times 10^{-1}$
0.9333	0.2333	$2.381 \times 10^{-3}$	0.204	0.135	$1.837 \times 10^{-1}$
0.9500	0.2333	$2.132 \times 10^{-3}$	0.210	0.129	$1.547 \times 10^{-1}$
0.9667	0.2333	$1.857 \times 10^{-3}$	0.217	0.122	$1.305 \times 10^{-1}$
0.9833	0.2333	$1.618 \times 10^{-3}$	0.225	0.115	$1.102 \times 10^{-1}$
1.0000	0.2333	$1.415 \times 10^{-3}$	0.230	0.108	$9.439 \times 10^{-2}$
0.0000	0.2500	$2.244 \times 10^{-4}$	1.000	$4.616 \times 10^{-4}$	$7.413 \times 10^{-3}$
0.0167	0.2500	$2.247 \times 10^{-4}$	1.000	$7.252 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.0333	0.2500	$2.255 \times 10^{-4}$	1.000	$4.992 \times 10^{-4}$	$7.446 \times 10^{-3}$
0.0500	0.2500	$2.257 \times 10^{-4}$	1.000	$1.667 \times 10^{-4}$	$7.446 \times 10^{-3}$
0.0667	0.2500	$2.249 \times 10^{-4}$	1.000	$-1.411 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.0833	0.2500	$2.234 \times 10^{-4}$	1.000	$-2.245 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.1000	0.2500	$2.236 \times 10^{-4}$	1.000	$-4.188 \times 10^{-5}$	$7.375 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.1167	0.2500	$2.245 \times 10^{-4}$	1.000	$7.956 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.1333	0.2500	$2.240 \times 10^{-4}$	1.001	$2.393 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.1500	0.2500	$2.242 \times 10^{-4}$	1.000	$2.566 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.1667	0.2500	$2.234 \times 10^{-4}$	1.000	$3.075 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.1833	0.2500	$2.228 \times 10^{-4}$	1.001	$2.851 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.2000	0.2500	$2.216 \times 10^{-4}$	1.001	$3.373 \times 10^{-4}$	$7.308 \times 10^{-3}$
0.2167	0.2500	$2.221 \times 10^{-4}$	1.000	$-1.556 \times 10^{-4}$	$7.322 \times 10^{-3}$
0.2333	0.2500	$2.230 \times 10^{-4}$	1.000	$1.174 \times 10^{-4}$	$7.344 \times 10^{-3}$
0.2500	0.2500	$2.233 \times 10^{-4}$	0.999	$2.863 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.2667	0.2500	$2.243 \times 10^{-4}$	1.000	$4.507 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.2833	0.2500	$2.238 \times 10^{-4}$	1.000	$-1.238 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.3000	0.2500	$2.241 \times 10^{-4}$	1.000	$-4.532 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.3167	0.2500	$2.238 \times 10^{-4}$	1.000	$-2.649 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.3333	0.2500	$2.246 \times 10^{-4}$	1.000	$-5.847 \times 10^{-4}$	$7.423 \times 10^{-3}$
0.3500	0.2500	$2.245 \times 10^{-4}$	1.000	$-3.520 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.3667	0.2500	$2.231 \times 10^{-4}$	1.000	$-2.338 \times 10^{-4}$	$7.356 \times 10^{-3}$
0.3833	0.2500	$2.233 \times 10^{-4}$	1.000	$2.276 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.4000	0.2500	$2.231 \times 10^{-4}$	1.000	$-1.274 \times 10^{-4}$	$7.334 \times 10^{-3}$
0.4167	0.2500	$2.229 \times 10^{-4}$	1.000	$7.699 \times 10^{-4}$	$7.284 \times 10^{-3}$
0.4333	0.2500	$2.229 \times 10^{-4}$	1.000	$7.680 \times 10^{-5}$	$7.313 \times 10^{-3}$
0.4500	0.2500	$2.221 \times 10^{-4}$	1.000	$2.375 \times 10^{-4}$	$7.268 \times 10^{-3}$
0.4667	0.2500	$2.227 \times 10^{-4}$	1.000	$2.828 \times 10^{-4}$	$7.318 \times 10^{-3}$
0.4833	0.2500	$2.222 \times 10^{-4}$	1.000	$1.582 \times 10^{-4}$	$7.299 \times 10^{-3}$
0.5000	0.2500	$2.225 \times 10^{-4}$	1.000	$3.557 \times 10^{-4}$	$7.339 \times 10^{-3}$
0.5167	0.2500	$2.219 \times 10^{-4}$	1.000	$-1.736 \times 10^{-4}$	$7.310 \times 10^{-3}$
0.5333	0.2500	$2.243 \times 10^{-4}$	1.000	$-1.847 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.5500	0.2500	$2.248 \times 10^{-4}$	1.000	$2.201 \times 10^{-4}$	$7.435 \times 10^{-3}$
0.5667	0.2500	$2.246 \times 10^{-4}$	1.000	$3.371 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.5833	0.2500	$2.241 \times 10^{-4}$	1.000	$3.717 \times 10^{-4}$	$7.405 \times 10^{-3}$
0.6000	0.2500	$2.239 \times 10^{-4}$	1.000	$3.438 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.6167	0.2500	$2.240 \times 10^{-4}$	1.000	$3.458 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.6333	0.2500	$2.258 \times 10^{-4}$	1.000	$1.473 \times 10^{-4}$	$7.470 \times 10^{-3}$
0.6500	0.2500	$2.244 \times 10^{-4}$	1.000	$2.947 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.6667	0.2500	$2.229 \times 10^{-4}$	1.000	$2.573 \times 10^{-6}$	$7.366 \times 10^{-3}$
0.6833	0.2500	$2.229 \times 10^{-4}$	1.000	$-5.738 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.7000	0.2500	$2.231 \times 10^{-4}$	1.000	$-2.671 \times 10^{-4}$	$7.349 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7167	0.2500	$2.245 \times 10^{-4}$	1.000	$-1.168 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.7333	0.2500	$2.226 \times 10^{-4}$	1.000	$-4.349 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.7500	0.2500	$2.229 \times 10^{-4}$	1.000	$-5.671 \times 10^{-4}$	$7.312 \times 10^{-3}$
0.7667	0.2500	$2.234 \times 10^{-4}$	1.000	$-8.617 \times 10^{-5}$	$7.365 \times 10^{-3}$
0.7833	0.2500	$2.221 \times 10^{-4}$	1.000	$2.727 \times 10^{-4}$	$7.310 \times 10^{-3}$
0.8000	0.2500	$2.311 \times 10^{-4}$	0.964	$2.985 \times 10^{-2}$	$1.838 \times 10^{-2}$
0.8167	0.2500	$9.831 \times 10^{-4}$	0.544	0.400	$3.658 \times 10^{-1}$
0.8333	0.2500	$1.415 \times 10^{-3}$	0.530	0.450	$4.640 \times 10^{-1}$
0.8500	0.2500	$1.374 \times 10^{-3}$	0.500	0.413	$4.142 \times 10^{-1}$
0.8667	0.2500	$1.267 \times 10^{-3}$	0.412	0.324	$3.618 \times 10^{-1}$
0.8833	0.2500	$1.370 \times 10^{-3}$	0.316	0.241	$3.134 \times 10^{-1}$
0.9000	0.2500	$1.714 \times 10^{-3}$	0.253	0.185	$2.708 \times 10^{-1}$
0.9167	0.2500	$2.045 \times 10^{-3}$	0.228	0.156	$2.315 \times 10^{-1}$
0.9333	0.2500	$2.203 \times 10^{-3}$	0.220	0.141	$1.975 \times 10^{-1}$
0.9500	0.2500	$2.125 \times 10^{-3}$	0.221	0.132	$1.643 \times 10^{-1}$
0.9667	0.2500	$1.962 \times 10^{-3}$	0.225	0.126	$1.390 \times 10^{-1}$
0.9833	0.2500	$1.788 \times 10^{-3}$	0.229	0.117	$1.205 \times 10^{-1}$
1.0000	0.2500	$1.595 \times 10^{-3}$	0.235	0.110	$1.033 \times 10^{-1}$
0.0000	0.2667	$2.238 \times 10^{-4}$	1.000	$-2.015 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.0167	0.2667	$2.232 \times 10^{-4}$	1.001	$4.624 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.0333	0.2667	$2.242 \times 10^{-4}$	1.001	$5.160 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.0500	0.2667	$2.242 \times 10^{-4}$	1.001	$2.974 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.0667	0.2667	$2.226 \times 10^{-4}$	1.001	$2.533 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.0833	0.2667	$2.226 \times 10^{-4}$	1.000	$4.455 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.1000	0.2667	$2.232 \times 10^{-4}$	1.000	$-5.872 \times 10^{-6}$	$7.346 \times 10^{-3}$
0.1167	0.2667	$2.240 \times 10^{-4}$	1.000	$5.145 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.1333	0.2667	$2.242 \times 10^{-4}$	1.000	$1.267 \times 10^{-4}$	$7.428 \times 10^{-3}$
0.1500	0.2667	$2.234 \times 10^{-4}$	1.000	$3.654 \times 10^{-5}$	$7.369 \times 10^{-3}$
0.1667	0.2667	$2.242 \times 10^{-4}$	1.000	$-2.320 \times 10^{-4}$	$7.401 \times 10^{-3}$
0.1833	0.2667	$2.245 \times 10^{-4}$	1.000	$-2.569 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.2000	0.2667	$2.251 \times 10^{-4}$	1.000	$1.931 \times 10^{-4}$	$7.466 \times 10^{-3}$
0.2167	0.2667	$2.228 \times 10^{-4}$	1.000	$2.302 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.2333	0.2667	$2.240 \times 10^{-4}$	1.000	$1.457 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.2500	0.2667	$2.238 \times 10^{-4}$	1.000	$-2.917 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.2667	0.2667	$2.232 \times 10^{-4}$	1.000	$-6.839 \times 10^{-5}$	$7.383 \times 10^{-3}$
0.2833	0.2667	$2.229 \times 10^{-4}$	1.000	$1.639 \times 10^{-4}$	$7.368 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.3000	0.2667	$2.222 \times 10^{-4}$	0.999	$6.277 \times 10^{-4}$	$7.362 \times 10^{-3}$
0.3167	0.2667	$2.223 \times 10^{-4}$	1.000	$7.991 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.3333	0.2667	$2.233 \times 10^{-4}$	1.000	$6.176 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.3500	0.2667	$2.240 \times 10^{-4}$	0.999	$2.614 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.3667	0.2667	$2.236 \times 10^{-4}$	1.000	$2.615 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.3833	0.2667	$2.235 \times 10^{-4}$	1.000	$3.568 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.4000	0.2667	$2.240 \times 10^{-4}$	0.999	$6.430 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.4167	0.2667	$2.232 \times 10^{-4}$	1.000	$4.248 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.4333	0.2667	$2.239 \times 10^{-4}$	1.000	$4.884 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.4500	0.2667	$2.238 \times 10^{-4}$	1.000	$-1.330 \times 10^{-4}$	$7.401 \times 10^{-3}$
0.4667	0.2667	$2.239 \times 10^{-4}$	1.000	$-1.950 \times 10^{-4}$	$7.409 \times 10^{-3}$
0.4833	0.2667	$2.244 \times 10^{-4}$	1.000	$1.722 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.5000	0.2667	$2.242 \times 10^{-4}$	1.000	$1.352 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.5167	0.2667	$2.249 \times 10^{-4}$	1.000	$-2.153 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.5333	0.2667	$2.237 \times 10^{-4}$	1.000	$1.395 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.5500	0.2667	$2.235 \times 10^{-4}$	1.000	$1.933 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.5667	0.2667	$2.251 \times 10^{-4}$	0.999	$1.899 \times 10^{-4}$	$7.437 \times 10^{-3}$
0.5833	0.2667	$2.242 \times 10^{-4}$	1.000	$-5.531 \times 10^{-4}$	$7.442 \times 10^{-3}$
0.6000	0.2667	$2.260 \times 10^{-4}$	1.000	$-2.252 \times 10^{-4}$	$7.504 \times 10^{-3}$
0.6167	0.2667	$2.265 \times 10^{-4}$	1.000	$5.983 \times 10^{-4}$	$7.503 \times 10^{-3}$
0.6333	0.2667	$2.259 \times 10^{-4}$	1.000	$3.528 \times 10^{-4}$	$7.456 \times 10^{-3}$
0.6500	0.2667	$2.258 \times 10^{-4}$	1.000	$-2.042 \times 10^{-4}$	$7.437 \times 10^{-3}$
0.6667	0.2667	$2.263 \times 10^{-4}$	0.999	$-2.860 \times 10^{-4}$	$7.463 \times 10^{-3}$
0.6833	0.2667	$2.249 \times 10^{-4}$	1.000	$-4.567 \times 10^{-5}$	$7.428 \times 10^{-3}$
0.7000	0.2667	$2.249 \times 10^{-4}$	1.000	$3.514 \times 10^{-4}$	$7.437 \times 10^{-3}$
0.7167	0.2667	$2.259 \times 10^{-4}$	1.000	$-9.453 \times 10^{-5}$	$7.429 \times 10^{-3}$
0.7333	0.2667	$2.253 \times 10^{-4}$	1.000	$5.187 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.7500	0.2667	$2.237 \times 10^{-4}$	1.000	$-5.336 \times 10^{-5}$	$7.354 \times 10^{-3}$
0.7667	0.2667	$2.231 \times 10^{-4}$	1.000	$-7.286 \times 10^{-5}$	$7.330 \times 10^{-3}$
0.7833	0.2667	$2.249 \times 10^{-4}$	0.999	$2.453 \times 10^{-4}$	$7.413 \times 10^{-3}$
0.8000	0.2667	$2.250 \times 10^{-4}$	0.998	$1.517 \times 10^{-5}$	$7.533 \times 10^{-3}$
0.8167	0.2667	$2.677 \times 10^{-4}$	0.913	$7.294 \times 10^{-2}$	$3.665 \times 10^{-2}$
0.8333	0.2667	$1.084 \times 10^{-3}$	0.541	0.410	$4.023 \times 10^{-1}$
0.8500	0.2667	$1.282 \times 10^{-3}$	0.538	0.439	$4.243 \times 10^{-1}$
0.8667	0.2667	$1.258 \times 10^{-3}$	0.529	0.414	$3.746 \times 10^{-1}$
0.8833	0.2667	$1.153 \times 10^{-3}$	0.464	0.343	$3.231 \times 10^{-1}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9000	0.2667	$1.151 \times 10^{-3}$	0.376	0.267	$2.803 \times 10^{-1}$
0.9167	0.2667	$1.316 \times 10^{-3}$	0.307	0.207	$2.430 \times 10^{-1}$
0.9333	0.2667	$1.563 \times 10^{-3}$	0.266	0.168	$2.090 \times 10^{-1}$
0.9500	0.2667	$1.785 \times 10^{-3}$	0.248	0.146	$1.828 \times 10^{-1}$
0.9667	0.2667	$1.854 \times 10^{-3}$	0.241	0.134	$1.543 \times 10^{-1}$
0.9833	0.2667	$1.817 \times 10^{-3}$	0.239	0.123	$1.334 \times 10^{-1}$
1.0000	0.2667	$1.703 \times 10^{-3}$	0.241	0.114	$1.145 \times 10^{-1}$
0.0000	0.2833	$2.238 \times 10^{-4}$	1.000	$-5.330 \times 10^{-4}$	$7.326 \times 10^{-3}$
0.0167	0.2833	$2.237 \times 10^{-4}$	1.000	$-9.034 \times 10^{-5}$	$7.339 \times 10^{-3}$
0.0333	0.2833	$2.242 \times 10^{-4}$	1.000	$1.386 \times 10^{-5}$	$7.362 \times 10^{-3}$
0.0500	0.2833	$2.234 \times 10^{-4}$	1.000	$3.323 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.0667	0.2833	$2.243 \times 10^{-4}$	1.000	$-3.017 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.0833	0.2833	$2.257 \times 10^{-4}$	1.000	$-6.362 \times 10^{-4}$	$7.435 \times 10^{-3}$
0.1000	0.2833	$2.251 \times 10^{-4}$	1.000	$-1.083 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.1167	0.2833	$2.237 \times 10^{-4}$	1.001	$1.579 \times 10^{-4}$	$7.345 \times 10^{-3}$
0.1333	0.2833	$2.251 \times 10^{-4}$	1.000	$1.080 \times 10^{-4}$	$7.411 \times 10^{-3}$
0.1500	0.2833	$2.248 \times 10^{-4}$	1.000	$-8.308 \times 10^{-5}$	$7.402 \times 10^{-3}$
0.1667	0.2833	$2.247 \times 10^{-4}$	1.000	$2.843 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.1833	0.2833	$2.233 \times 10^{-4}$	1.000	$3.409 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.2000	0.2833	$2.251 \times 10^{-4}$	1.000	$-9.339 \times 10^{-5}$	$7.364 \times 10^{-3}$
0.2167	0.2833	$2.263 \times 10^{-4}$	1.000	$-5.419 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.2333	0.2833	$2.252 \times 10^{-4}$	1.000	$5.012 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.2500	0.2833	$2.246 \times 10^{-4}$	0.999	$3.157 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.2667	0.2833	$2.244 \times 10^{-4}$	0.999	$-2.794 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.2833	0.2833	$2.251 \times 10^{-4}$	1.000	$-6.017 \times 10^{-5}$	$7.401 \times 10^{-3}$
0.3000	0.2833	$2.253 \times 10^{-4}$	1.000	$-6.671 \times 10^{-4}$	$7.440 \times 10^{-3}$
0.3167	0.2833	$2.262 \times 10^{-4}$	0.999	$-6.767 \times 10^{-5}$	$7.484 \times 10^{-3}$
0.3333	0.2833	$2.248 \times 10^{-4}$	1.000	$1.580 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.3500	0.2833	$2.242 \times 10^{-4}$	1.000	$3.888 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.3667	0.2833	$2.241 \times 10^{-4}$	1.000	$2.528 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.3833	0.2833	$2.237 \times 10^{-4}$	1.000	$-1.341 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.4000	0.2833	$2.238 \times 10^{-4}$	1.000	$-3.763 \times 10^{-4}$	$7.356 \times 10^{-3}$
0.4167	0.2833	$2.226 \times 10^{-4}$	1.001	$-3.003 \times 10^{-4}$	$7.305 \times 10^{-3}$
0.4333	0.2833	$2.232 \times 10^{-4}$	1.000	$2.062 \times 10^{-4}$	$7.338 \times 10^{-3}$
0.4500	0.2833	$2.239 \times 10^{-4}$	1.000	$-4.461 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.4667	0.2833	$2.236 \times 10^{-4}$	1.000	$-2.833 \times 10^{-4}$	$7.393 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.4833	0.2833	$2.242 \times 10^{-4}$	1.000	$-2.192 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.5000	0.2833	$2.238 \times 10^{-4}$	1.000	$7.807 \times 10^{-5}$	$7.386 \times 10^{-3}$
0.5167	0.2833	$2.230 \times 10^{-4}$	1.000	$-1.270 \times 10^{-4}$	$7.333 \times 10^{-3}$
0.5333	0.2833	$2.243 \times 10^{-4}$	0.999	$-5.335 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.5500	0.2833	$2.228 \times 10^{-4}$	0.999	$-7.525 \times 10^{-4}$	$7.312 \times 10^{-3}$
0.5667	0.2833	$2.233 \times 10^{-4}$	0.999	$-4.534 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.5833	0.2833	$2.236 \times 10^{-4}$	1.000	$-2.819 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.6000	0.2833	$2.246 \times 10^{-4}$	1.000	$-2.829 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.6167	0.2833	$2.239 \times 10^{-4}$	0.999	$-5.003 \times 10^{-4}$	$7.341 \times 10^{-3}$
0.6333	0.2833	$2.240 \times 10^{-4}$	0.999	$-2.666 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.6500	0.2833	$2.231 \times 10^{-4}$	0.999	$-1.817 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.6667	0.2833	$2.234 \times 10^{-4}$	1.000	$3.291 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.6833	0.2833	$2.250 \times 10^{-4}$	1.000	$3.851 \times 10^{-4}$	$7.409 \times 10^{-3}$
0.7000	0.2833	$2.245 \times 10^{-4}$	0.999	$-2.953 \times 10^{-6}$	$7.374 \times 10^{-3}$
0.7167	0.2833	$2.244 \times 10^{-4}$	1.000	$7.296 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.7333	0.2833	$2.250 \times 10^{-4}$	1.000	$4.140 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.7500	0.2833	$2.242 \times 10^{-4}$	1.000	$5.822 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.7667	0.2833	$2.250 \times 10^{-4}$	1.000	$1.067 \times 10^{-3}$	$7.346 \times 10^{-3}$
0.7833	0.2833	$2.236 \times 10^{-4}$	1.000	$2.822 \times 10^{-4}$	$7.303 \times 10^{-3}$
0.8000	0.2833	$2.239 \times 10^{-4}$	1.000	$4.255 \times 10^{-4}$	$7.356 \times 10^{-3}$
0.8167	0.2833	$2.257 \times 10^{-4}$	0.999	$-2.458 \times 10^{-4}$	$7.615 \times 10^{-3}$
0.8333	0.2833	$3.066 \times 10^{-4}$	0.865	0.117	$5.664 \times 10^{-2}$
0.8500	0.2833	$1.094 \times 10^{-3}$	0.552	0.406	$4.022 \times 10^{-1}$
0.8667	0.2833	$1.181 \times 10^{-3}$	0.554	0.428	$3.943 \times 10^{-1}$
0.8833	0.2833	$1.149 \times 10^{-3}$	0.554	0.409	$3.428 \times 10^{-1}$
0.9000	0.2833	$1.061 \times 10^{-3}$	0.511	0.358	$2.942 \times 10^{-1}$
0.9167	0.2833	$1.002 \times 10^{-3}$	0.440	0.291	$2.548 \times 10^{-1}$
0.9333	0.2833	$1.052 \times 10^{-3}$	0.369	0.231	$2.219 \times 10^{-1}$
0.9500	0.2833	$1.200 \times 10^{-3}$	0.315	0.187	$1.936 \times 10^{-1}$
0.9667	0.2833	$1.378 \times 10^{-3}$	0.285	0.158	$1.694 \times 10^{-1}$
0.9833	0.2833	$1.491 \times 10^{-3}$	0.269	0.139	$1.438 \times 10^{-1}$
1.0000	0.2833	$1.571 \times 10^{-3}$	0.260	0.126	$1.266 \times 10^{-1}$
0.0000	0.3000	$2.212 \times 10^{-4}$	1.000	$3.205 \times 10^{-4}$	$7.301 \times 10^{-3}$
0.0167	0.3000	$2.221 \times 10^{-4}$	1.000	$9.710 \times 10^{-5}$	$7.326 \times 10^{-3}$
0.0333	0.3000	$2.219 \times 10^{-4}$	1.000	$-1.547 \times 10^{-4}$	$7.289 \times 10^{-3}$
0.0500	0.3000	$2.219 \times 10^{-4}$	1.000	$6.250 \times 10^{-4}$	$7.307 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.0667	0.3000	$2.219 \times 10^{-4}$	1.000	$5.883 \times 10^{-4}$	$7.312 \times 10^{-3}$
0.0833	0.3000	$2.239 \times 10^{-4}$	1.000	$2.409 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.1000	0.3000	$2.239 \times 10^{-4}$	1.000	$-3.676 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.1167	0.3000	$2.233 \times 10^{-4}$	1.000	$-4.332 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.1333	0.3000	$2.241 \times 10^{-4}$	1.000	$-5.274 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.1500	0.3000	$2.240 \times 10^{-4}$	1.000	$-6.287 \times 10^{-5}$	$7.402 \times 10^{-3}$
0.1667	0.3000	$2.246 \times 10^{-4}$	1.001	$4.358 \times 10^{-5}$	$7.400 \times 10^{-3}$
0.1833	0.3000	$2.250 \times 10^{-4}$	1.001	$-5.891 \times 10^{-6}$	$7.423 \times 10^{-3}$
0.2000	0.3000	$2.260 \times 10^{-4}$	1.001	$-3.395 \times 10^{-4}$	$7.456 \times 10^{-3}$
0.2167	0.3000	$2.255 \times 10^{-4}$	1.001	$-1.624 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.2333	0.3000	$2.243 \times 10^{-4}$	1.000	$2.588 \times 10^{-4}$	$7.409 \times 10^{-3}$
0.2500	0.3000	$2.226 \times 10^{-4}$	1.001	$-5.331 \times 10^{-4}$	$7.312 \times 10^{-3}$
0.2667	0.3000	$2.244 \times 10^{-4}$	1.001	$-3.448 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.2833	0.3000	$2.227 \times 10^{-4}$	1.001	$-4.804 \times 10^{-4}$	$7.344 \times 10^{-3}$
0.3000	0.3000	$2.234 \times 10^{-4}$	1.000	$-8.844 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.3167	0.3000	$2.206 \times 10^{-4}$	1.000	$-1.638 \times 10^{-4}$	$7.254 \times 10^{-3}$
0.3333	0.3000	$2.209 \times 10^{-4}$	1.000	$4.917 \times 10^{-4}$	$7.285 \times 10^{-3}$
0.3500	0.3000	$2.238 \times 10^{-4}$	1.000	$1.737 \times 10^{-5}$	$7.358 \times 10^{-3}$
0.3667	0.3000	$2.239 \times 10^{-4}$	1.000	$2.980 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.3833	0.3000	$2.234 \times 10^{-4}$	1.000	$2.044 \times 10^{-4}$	$7.345 \times 10^{-3}$
0.4000	0.3000	$2.238 \times 10^{-4}$	1.000	$-3.416 \times 10^{-4}$	$7.354 \times 10^{-3}$
0.4167	0.3000	$2.242 \times 10^{-4}$	1.000	$3.206 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.4333	0.3000	$2.256 \times 10^{-4}$	1.000	$-6.498 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.4500	0.3000	$2.251 \times 10^{-4}$	1.001	$-6.471 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.4667	0.3000	$2.244 \times 10^{-4}$	1.001	$-7.679 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.4833	0.3000	$2.240 \times 10^{-4}$	1.001	$-2.287 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.5000	0.3000	$2.240 \times 10^{-4}$	1.001	$-4.582 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.5167	0.3000	$2.232 \times 10^{-4}$	1.001	$9.526 \times 10^{-5}$	$7.355 \times 10^{-3}$
0.5333	0.3000	$2.230 \times 10^{-4}$	1.001	$-5.137 \times 10^{-4}$	$7.329 \times 10^{-3}$
0.5500	0.3000	$2.228 \times 10^{-4}$	1.001	$-3.631 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.5667	0.3000	$2.226 \times 10^{-4}$	1.001	$-6.996 \times 10^{-4}$	$7.339 \times 10^{-3}$
0.5833	0.3000	$2.226 \times 10^{-4}$	1.000	$-4.801 \times 10^{-4}$	$7.323 \times 10^{-3}$
0.6000	0.3000	$2.245 \times 10^{-4}$	1.000	$-3.231 \times 10^{-5}$	$7.386 \times 10^{-3}$
0.6167	0.3000	$2.252 \times 10^{-4}$	1.000	$2.639 \times 10^{-4}$	$7.436 \times 10^{-3}$
0.6333	0.3000	$2.243 \times 10^{-4}$	1.000	$6.425 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.6500	0.3000	$2.236 \times 10^{-4}$	1.000	$-3.798 \times 10^{-4}$	$7.330 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6667	0.3000	$2.247 \times 10^{-4}$	1.000	$-2.163 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.6833	0.3000	$2.242 \times 10^{-4}$	1.000	$-4.807 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.7000	0.3000	$2.237 \times 10^{-4}$	1.001	$-3.935 \times 10^{-4}$	$7.354 \times 10^{-3}$
0.7167	0.3000	$2.257 \times 10^{-4}$	1.000	$1.328 \times 10^{-5}$	$7.406 \times 10^{-3}$
0.7333	0.3000	$2.257 \times 10^{-4}$	1.000	$-3.603 \times 10^{-4}$	$7.434 \times 10^{-3}$
0.7500	0.3000	$2.254 \times 10^{-4}$	1.001	$-2.272 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.7667	0.3000	$2.239 \times 10^{-4}$	1.000	$-6.839 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.7833	0.3000	$2.256 \times 10^{-4}$	1.001	$-8.236 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.8000	0.3000	$2.247 \times 10^{-4}$	1.000	$-1.055 \times 10^{-3}$	$7.372 \times 10^{-3}$
0.8167	0.3000	$2.233 \times 10^{-4}$	1.000	$-6.879 \times 10^{-4}$	$7.334 \times 10^{-3}$
0.8333	0.3000	$2.253 \times 10^{-4}$	1.000	$2.882 \times 10^{-4}$	$7.733 \times 10^{-3}$
0.8500	0.3000	$3.392 \times 10^{-4}$	0.832	0.156	$7.265 \times 10^{-2}$
0.8667	0.3000	$1.089 \times 10^{-3}$	0.569	0.403	$3.878 \times 10^{-1}$
0.8833	0.3000	$1.096 \times 10^{-3}$	0.572	0.412	$3.678 \times 10^{-1}$
0.9000	0.3000	$1.071 \times 10^{-3}$	0.578	0.402	$3.218 \times 10^{-1}$
0.9167	0.3000	$9.870 \times 10^{-4}$	0.554	0.364	$2.740 \times 10^{-1}$
0.9333	0.3000	$9.243 \times 10^{-4}$	0.502	0.311	$2.389 \times 10^{-1}$
0.9500	0.3000	$8.985 \times 10^{-4}$	0.438	0.255	$2.073 \times 10^{-1}$
0.9667	0.3000	$9.536 \times 10^{-4}$	0.379	0.210	$1.828 \times 10^{-1}$
0.9833	0.3000	$1.058 \times 10^{-3}$	0.336	0.174	$1.607 \times 10^{-1}$
1.0000	0.3000	$1.168 \times 10^{-3}$	0.309	0.149	$1.407 \times 10^{-1}$
0.0000	0.3167	$2.232 \times 10^{-4}$	0.999	$5.760 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.0167	0.3167	$2.230 \times 10^{-4}$	0.999	$2.995 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.0333	0.3167	$2.232 \times 10^{-4}$	1.000	$-1.984 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.0500	0.3167	$2.242 \times 10^{-4}$	1.000	$-7.649 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.0667	0.3167	$2.239 \times 10^{-4}$	1.000	$-1.698 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.0833	0.3167	$2.241 \times 10^{-4}$	0.999	$-1.457 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.1000	0.3167	$2.256 \times 10^{-4}$	0.999	$2.688 \times 10^{-5}$	$7.426 \times 10^{-3}$
0.1167	0.3167	$2.254 \times 10^{-4}$	1.000	$-3.897 \times 10^{-4}$	$7.410 \times 10^{-3}$
0.1333	0.3167	$2.243 \times 10^{-4}$	1.000	$-3.176 \times 10^{-5}$	$7.410 \times 10^{-3}$
0.1500	0.3167	$2.249 \times 10^{-4}$	1.000	$3.782 \times 10^{-5}$	$7.419 \times 10^{-3}$
0.1667	0.3167	$2.249 \times 10^{-4}$	1.000	$-5.627 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.1833	0.3167	$2.233 \times 10^{-4}$	1.000	$-1.038 \times 10^{-3}$	$7.339 \times 10^{-3}$
0.2000	0.3167	$2.229 \times 10^{-4}$	0.999	$-1.631 \times 10^{-3}$	$7.330 \times 10^{-3}$
0.2167	0.3167	$2.235 \times 10^{-4}$	0.999	$-1.133 \times 10^{-3}$	$7.362 \times 10^{-3}$
0.2333	0.3167	$2.235 \times 10^{-4}$	1.000	$-1.013 \times 10^{-3}$	$7.344 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.2500	0.3167	$2.247 \times 10^{-4}$	1.000	$-1.175 \times 10^{-3}$	$7.396 \times 10^{-3}$
0.2667	0.3167	$2.250 \times 10^{-4}$	1.000	$-4.720 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.2833	0.3167	$2.249 \times 10^{-4}$	1.000	$3.662 \times 10^{-5}$	$7.379 \times 10^{-3}$
0.3000	0.3167	$2.249 \times 10^{-4}$	1.000	$5.467 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.3167	0.3167	$2.266 \times 10^{-4}$	1.000	$-3.083 \times 10^{-4}$	$7.454 \times 10^{-3}$
0.3333	0.3167	$2.249 \times 10^{-4}$	1.000	$-7.362 \times 10^{-4}$	$7.413 \times 10^{-3}$
0.3500	0.3167	$2.247 \times 10^{-4}$	1.000	$-5.483 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.3667	0.3167	$2.255 \times 10^{-4}$	1.000	$-8.152 \times 10^{-6}$	$7.427 \times 10^{-3}$
0.3833	0.3167	$2.255 \times 10^{-4}$	1.000	$-5.763 \times 10^{-4}$	$7.427 \times 10^{-3}$
0.4000	0.3167	$2.257 \times 10^{-4}$	0.999	$-1.158 \times 10^{-3}$	$7.430 \times 10^{-3}$
0.4167	0.3167	$2.252 \times 10^{-4}$	0.999	$-6.840 \times 10^{-4}$	$7.420 \times 10^{-3}$
0.4333	0.3167	$2.253 \times 10^{-4}$	0.999	$-6.646 \times 10^{-4}$	$7.447 \times 10^{-3}$
0.4500	0.3167	$2.243 \times 10^{-4}$	0.999	$-4.515 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.4667	0.3167	$2.243 \times 10^{-4}$	0.999	$-3.500 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.4833	0.3167	$2.255 \times 10^{-4}$	0.999	$-1.167 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.5000	0.3167	$2.251 \times 10^{-4}$	0.999	$-2.439 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.5167	0.3167	$2.244 \times 10^{-4}$	0.999	$-3.240 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.5333	0.3167	$2.234 \times 10^{-4}$	1.000	$2.182 \times 10^{-6}$	$7.344 \times 10^{-3}$
0.5500	0.3167	$2.230 \times 10^{-4}$	1.000	$1.186 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.5667	0.3167	$2.244 \times 10^{-4}$	1.000	$-5.559 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.5833	0.3167	$2.246 \times 10^{-4}$	1.000	$-5.165 \times 10^{-4}$	$7.395 \times 10^{-3}$
0.6000	0.3167	$2.247 \times 10^{-4}$	1.000	$-3.067 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.6167	0.3167	$2.250 \times 10^{-4}$	1.000	$-2.335 \times 10^{-4}$	$7.409 \times 10^{-3}$
0.6333	0.3167	$2.240 \times 10^{-4}$	1.000	$-3.646 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.6500	0.3167	$2.242 \times 10^{-4}$	1.000	$2.337 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.6667	0.3167	$2.242 \times 10^{-4}$	1.000	$3.951 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.6833	0.3167	$2.245 \times 10^{-4}$	1.000	$4.407 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.7000	0.3167	$2.244 \times 10^{-4}$	1.001	$2.295 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.7167	0.3167	$2.236 \times 10^{-4}$	1.001	$1.564 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.7333	0.3167	$2.236 \times 10^{-4}$	1.001	$4.252 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.7500	0.3167	$2.241 \times 10^{-4}$	1.001	$6.048 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.7667	0.3167	$2.251 \times 10^{-4}$	1.001	$-3.366 \times 10^{-4}$	$7.430 \times 10^{-3}$
0.7833	0.3167	$2.246 \times 10^{-4}$	1.000	$5.021 \times 10^{-5}$	$7.409 \times 10^{-3}$
0.8000	0.3167	$2.240 \times 10^{-4}$	1.001	$-2.457 \times 10^{-5}$	$7.357 \times 10^{-3}$
0.8167	0.3167	$2.243 \times 10^{-4}$	1.001	$-8.903 \times 10^{-5}$	$7.378 \times 10^{-3}$
0.8333	0.3167	$2.243 \times 10^{-4}$	1.000	$-5.252 \times 10^{-5}$	$7.373 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8500	0.3167	$2.257 \times 10^{-4}$	0.999	$6.386 \times 10^{-4}$	$7.841 \times 10^{-3}$
0.8667	0.3167	$3.515 \times 10^{-4}$	0.830	0.165	$7.424 \times 10^{-2}$
0.8833	0.3167	$1.053 \times 10^{-3}$	0.595	0.398	$3.613 \times 10^{-1}$
0.9000	0.3167	$1.029 \times 10^{-3}$	0.593	0.403	$3.413 \times 10^{-1}$
0.9167	0.3167	$9.772 \times 10^{-4}$	0.599	0.395	$2.978 \times 10^{-1}$
0.9333	0.3167	$9.212 \times 10^{-4}$	0.590	0.368	$2.583 \times 10^{-1}$
0.9500	0.3167	$8.654 \times 10^{-4}$	0.557	0.327	$2.261 \times 10^{-1}$
0.9667	0.3167	$8.081 \times 10^{-4}$	0.506	0.280	$1.952 \times 10^{-1}$
0.9833	0.3167	$8.021 \times 10^{-4}$	0.450	0.234	$1.735 \times 10^{-1}$
1.0000	0.3167	$8.324 \times 10^{-4}$	0.401	0.197	$1.526 \times 10^{-1}$
0.0000	0.3333	$2.250 \times 10^{-4}$	1.000	$4.156 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.0167	0.3333	$2.253 \times 10^{-4}$	1.000	$2.820 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.0333	0.3333	$2.251 \times 10^{-4}$	1.000	$3.536 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.0500	0.3333	$2.250 \times 10^{-4}$	1.000	$2.580 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.0667	0.3333	$2.261 \times 10^{-4}$	0.999	$-1.654 \times 10^{-4}$	$7.467 \times 10^{-3}$
0.0833	0.3333	$2.248 \times 10^{-4}$	1.001	$6.856 \times 10^{-6}$	$7.418 \times 10^{-3}$
0.1000	0.3333	$2.265 \times 10^{-4}$	1.000	$5.691 \times 10^{-4}$	$7.443 \times 10^{-3}$
0.1167	0.3333	$2.262 \times 10^{-4}$	1.000	$8.516 \times 10^{-5}$	$7.429 \times 10^{-3}$
0.1333	0.3333	$2.253 \times 10^{-4}$	1.000	$2.087 \times 10^{-4}$	$7.409 \times 10^{-3}$
0.1500	0.3333	$2.247 \times 10^{-4}$	1.000	$-3.132 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.1667	0.3333	$2.240 \times 10^{-4}$	1.000	$5.658 \times 10^{-5}$	$7.349 \times 10^{-3}$
0.1833	0.3333	$2.236 \times 10^{-4}$	1.000	$-1.291 \times 10^{-4}$	$7.300 \times 10^{-3}$
0.2000	0.3333	$2.248 \times 10^{-4}$	0.999	$-3.280 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.2167	0.3333	$2.237 \times 10^{-4}$	1.001	$4.399 \times 10^{-4}$	$7.362 \times 10^{-3}$
0.2333	0.3333	$2.242 \times 10^{-4}$	1.000	$-1.446 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.2500	0.3333	$2.253 \times 10^{-4}$	1.000	$1.812 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.2667	0.3333	$2.237 \times 10^{-4}$	1.000	$-4.271 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.2833	0.3333	$2.232 \times 10^{-4}$	1.000	$-7.055 \times 10^{-4}$	$7.320 \times 10^{-3}$
0.3000	0.3333	$2.243 \times 10^{-4}$	0.999	$-6.637 \times 10^{-4}$	$7.362 \times 10^{-3}$
0.3167	0.3333	$2.243 \times 10^{-4}$	1.000	$-3.364 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.3333	0.3333	$2.244 \times 10^{-4}$	1.000	$-3.561 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.3500	0.3333	$2.243 \times 10^{-4}$	1.000	$-5.891 \times 10^{-4}$	$7.364 \times 10^{-3}$
0.3667	0.3333	$2.239 \times 10^{-4}$	1.000	$-3.272 \times 10^{-4}$	$7.341 \times 10^{-3}$
0.3833	0.3333	$2.231 \times 10^{-4}$	1.000	$-4.529 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.4000	0.3333	$2.237 \times 10^{-4}$	1.000	$2.855 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.4167	0.3333	$2.236 \times 10^{-4}$	1.001	$3.546 \times 10^{-4}$	$7.335 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.4333	0.3333	$2.235 \times 10^{-4}$	1.000	$4.062 \times 10^{-4}$	$7.331 \times 10^{-3}$
0.4500	0.3333	$2.227 \times 10^{-4}$	1.000	$-7.791 \times 10^{-4}$	$7.344 \times 10^{-3}$
0.4667	0.3333	$2.225 \times 10^{-4}$	1.000	$-4.923 \times 10^{-4}$	$7.310 \times 10^{-3}$
0.4833	0.3333	$2.235 \times 10^{-4}$	1.000	$-2.326 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.5000	0.3333	$2.231 \times 10^{-4}$	1.000	$8.823 \times 10^{-5}$	$7.338 \times 10^{-3}$
0.5167	0.3333	$2.229 \times 10^{-4}$	1.000	$6.143 \times 10^{-4}$	$7.322 \times 10^{-3}$
0.5333	0.3333	$2.231 \times 10^{-4}$	1.000	$5.304 \times 10^{-5}$	$7.310 \times 10^{-3}$
0.5500	0.3333	$2.224 \times 10^{-4}$	1.000	$-4.506 \times 10^{-4}$	$7.303 \times 10^{-3}$
0.5667	0.3333	$2.216 \times 10^{-4}$	1.000	$1.249 \times 10^{-5}$	$7.304 \times 10^{-3}$
0.5833	0.3333	$2.229 \times 10^{-4}$	1.000	$-2.158 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.6000	0.3333	$2.243 \times 10^{-4}$	1.000	$7.379 \times 10^{-5}$	$7.371 \times 10^{-3}$
0.6167	0.3333	$2.242 \times 10^{-4}$	1.000	$2.574 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.6333	0.3333	$2.240 \times 10^{-4}$	1.000	$2.015 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.6500	0.3333	$2.254 \times 10^{-4}$	1.000	$3.678 \times 10^{-4}$	$7.438 \times 10^{-3}$
0.6667	0.3333	$2.223 \times 10^{-4}$	1.001	$-7.752 \times 10^{-5}$	$7.274 \times 10^{-3}$
0.6833	0.3333	$2.238 \times 10^{-4}$	1.000	$-2.317 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.7000	0.3333	$2.243 \times 10^{-4}$	1.000	$3.018 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.7167	0.3333	$2.242 \times 10^{-4}$	1.001	$8.118 \times 10^{-5}$	$7.375 \times 10^{-3}$
0.7333	0.3333	$2.232 \times 10^{-4}$	1.001	$3.391 \times 10^{-4}$	$7.314 \times 10^{-3}$
0.7500	0.3333	$2.241 \times 10^{-4}$	1.000	$3.117 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.7667	0.3333	$2.240 \times 10^{-4}$	1.000	$4.449 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.7833	0.3333	$2.241 \times 10^{-4}$	1.000	$4.160 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.8000	0.3333	$2.235 \times 10^{-4}$	1.000	$2.215 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.8167	0.3333	$2.227 \times 10^{-4}$	1.000	$-3.872 \times 10^{-6}$	$7.350 \times 10^{-3}$
0.8333	0.3333	$2.234 \times 10^{-4}$	1.000	$1.717 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.8500	0.3333	$2.228 \times 10^{-4}$	1.000	$5.619 \times 10^{-4}$	$7.313 \times 10^{-3}$
0.8667	0.3333	$2.233 \times 10^{-4}$	0.999	$1.919 \times 10^{-3}$	$7.869 \times 10^{-3}$
0.8833	0.3333	$3.342 \times 10^{-4}$	0.855	0.151	$6.346 \times 10^{-2}$
0.9000	0.3333	$1.018 \times 10^{-3}$	0.621	0.389	$3.329 \times 10^{-1}$
0.9167	0.3333	$9.896 \times 10^{-4}$	0.617	0.393	$3.220 \times 10^{-1}$
0.9333	0.3333	$9.234 \times 10^{-4}$	0.618	0.382	$2.848 \times 10^{-1}$
0.9500	0.3333	$8.690 \times 10^{-4}$	0.618	0.366	$2.476 \times 10^{-1}$
0.9667	0.3333	$8.086 \times 10^{-4}$	0.603	0.336	$2.147 \times 10^{-1}$
0.9833	0.3333	$7.587 \times 10^{-4}$	0.569	0.299	$1.871 \times 10^{-1}$
1.0000	0.3333	$7.197 \times 10^{-4}$	0.524	0.260	$1.668 \times 10^{-1}$
0.0000	0.3500	$2.243 \times 10^{-4}$	0.999	$-6.302 \times 10^{-4}$	$7.373 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.0167	0.3500	$2.246 \times 10^{-4}$	0.999	$-3.568 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.0333	0.3500	$2.242 \times 10^{-4}$	1.000	$-1.935 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.0500	0.3500	$2.246 \times 10^{-4}$	1.000	$-4.568 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.0667	0.3500	$2.252 \times 10^{-4}$	1.000	$1.762 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.0833	0.3500	$2.251 \times 10^{-4}$	1.000	$1.344 \times 10^{-4}$	$7.451 \times 10^{-3}$
0.1000	0.3500	$2.248 \times 10^{-4}$	1.000	$-7.317 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.1167	0.3500	$2.265 \times 10^{-4}$	1.000	$3.182 \times 10^{-6}$	$7.461 \times 10^{-3}$
0.1333	0.3500	$2.241 \times 10^{-4}$	0.999	$-1.560 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.1500	0.3500	$2.243 \times 10^{-4}$	0.999	$-3.191 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.1667	0.3500	$2.243 \times 10^{-4}$	0.999	$-4.372 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.1833	0.3500	$2.234 \times 10^{-4}$	0.999	$-4.748 \times 10^{-4}$	$7.320 \times 10^{-3}$
0.2000	0.3500	$2.239 \times 10^{-4}$	0.999	$-3.048 \times 10^{-5}$	$7.353 \times 10^{-3}$
0.2167	0.3500	$2.230 \times 10^{-4}$	1.000	$-3.829 \times 10^{-4}$	$7.307 \times 10^{-3}$
0.2333	0.3500	$2.245 \times 10^{-4}$	1.000	$1.759 \times 10^{-6}$	$7.375 \times 10^{-3}$
0.2500	0.3500	$2.251 \times 10^{-4}$	1.000	$9.176 \times 10^{-5}$	$7.405 \times 10^{-3}$
0.2667	0.3500	$2.258 \times 10^{-4}$	1.000	$5.556 \times 10^{-5}$	$7.445 \times 10^{-3}$
0.2833	0.3500	$2.249 \times 10^{-4}$	1.000	$1.564 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.3000	0.3500	$2.242 \times 10^{-4}$	1.000	$3.015 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.3167	0.3500	$2.247 \times 10^{-4}$	0.999	$-3.864 \times 10^{-4}$	$7.435 \times 10^{-3}$
0.3333	0.3500	$2.215 \times 10^{-4}$	1.000	$-2.936 \times 10^{-4}$	$7.301 \times 10^{-3}$
0.3500	0.3500	$2.227 \times 10^{-4}$	1.000	$1.199 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.3667	0.3500	$2.222 \times 10^{-4}$	1.000	$-1.493 \times 10^{-4}$	$7.320 \times 10^{-3}$
0.3833	0.3500	$2.224 \times 10^{-4}$	1.000	$-2.651 \times 10^{-4}$	$7.334 \times 10^{-3}$
0.4000	0.3500	$2.227 \times 10^{-4}$	1.000	$-4.398 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.4167	0.3500	$2.238 \times 10^{-4}$	1.000	$-8.424 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.4333	0.3500	$2.232 \times 10^{-4}$	1.000	$1.423 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.4500	0.3500	$2.238 \times 10^{-4}$	1.000	$-1.136 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.4667	0.3500	$2.233 \times 10^{-4}$	1.000	$-2.755 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.4833	0.3500	$2.218 \times 10^{-4}$	1.000	$9.912 \times 10^{-5}$	$7.290 \times 10^{-3}$
0.5000	0.3500	$2.229 \times 10^{-4}$	0.999	$-1.453 \times 10^{-4}$	$7.344 \times 10^{-3}$
0.5167	0.3500	$2.230 \times 10^{-4}$	1.000	$-9.825 \times 10^{-5}$	$7.322 \times 10^{-3}$
0.5333	0.3500	$2.232 \times 10^{-4}$	1.000	$4.046 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.5500	0.3500	$2.242 \times 10^{-4}$	1.000	$-3.872 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.5667	0.3500	$2.231 \times 10^{-4}$	1.000	$-6.714 \times 10^{-4}$	$7.344 \times 10^{-3}$
0.5833	0.3500	$2.230 \times 10^{-4}$	1.000	$-6.659 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.6000	0.3500	$2.240 \times 10^{-4}$	1.000	$-6.924 \times 10^{-5}$	$7.380 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6167	0.3500	$2.244 \times 10^{-4}$	1.000	$4.655 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.6333	0.3500	$2.237 \times 10^{-4}$	1.000	$9.949 \times 10^{-4}$	$7.323 \times 10^{-3}$
0.6500	0.3500	$2.245 \times 10^{-4}$	1.000	$1.644 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.6667	0.3500	$2.229 \times 10^{-4}$	1.000	$4.618 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.6833	0.3500	$2.239 \times 10^{-4}$	1.000	$4.836 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.7000	0.3500	$2.245 \times 10^{-4}$	0.999	$-1.030 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.7167	0.3500	$2.241 \times 10^{-4}$	1.000	$1.958 \times 10^{-5}$	$7.393 \times 10^{-3}$
0.7333	0.3500	$2.240 \times 10^{-4}$	1.000	$-2.214 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.7500	0.3500	$2.254 \times 10^{-4}$	1.000	$-7.767 \times 10^{-4}$	$7.451 \times 10^{-3}$
0.7667	0.3500	$2.249 \times 10^{-4}$	1.000	$-1.719 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.7833	0.3500	$2.244 \times 10^{-4}$	1.000	$-2.124 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.8000	0.3500	$2.256 \times 10^{-4}$	1.000	$-2.092 \times 10^{-4}$	$7.455 \times 10^{-3}$
0.8167	0.3500	$2.239 \times 10^{-4}$	1.000	$-2.263 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.8333	0.3500	$2.237 \times 10^{-4}$	1.000	$-5.054 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.8500	0.3500	$2.240 \times 10^{-4}$	0.999	$-4.768 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.8667	0.3500	$2.241 \times 10^{-4}$	0.999	$-1.326 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.8833	0.3500	$2.238 \times 10^{-4}$	0.999	$4.871 \times 10^{-4}$	$7.423 \times 10^{-3}$
0.9000	0.3500	$2.991 \times 10^{-4}$	0.893	0.117	$4.585 \times 10^{-2}$
0.9167	0.3500	$9.552 \times 10^{-4}$	0.649	0.383	$2.943 \times 10^{-1}$
0.9333	0.3500	$9.723 \times 10^{-4}$	0.635	0.386	$3.074 \times 10^{-1}$
0.9500	0.3500	$8.822 \times 10^{-4}$	0.638	0.376	$2.705 \times 10^{-1}$
0.9667	0.3500	$8.285 \times 10^{-4}$	0.640	0.361	$2.392 \times 10^{-1}$
0.9833	0.3500	$7.722 \times 10^{-4}$	0.638	0.339	$2.084 \times 10^{-1}$
1.0000	0.3500	$7.225 \times 10^{-4}$	0.616	0.312	$1.838 \times 10^{-1}$
0.0000	0.3667	$2.230 \times 10^{-4}$	1.000	$1.532 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.0167	0.3667	$2.223 \times 10^{-4}$	1.000	$-2.009 \times 10^{-4}$	$7.326 \times 10^{-3}$
0.0333	0.3667	$2.220 \times 10^{-4}$	1.000	$1.759 \times 10^{-4}$	$7.324 \times 10^{-3}$
0.0500	0.3667	$2.218 \times 10^{-4}$	1.000	$4.294 \times 10^{-4}$	$7.331 \times 10^{-3}$
0.0667	0.3667	$2.214 \times 10^{-4}$	0.999	$-3.958 \times 10^{-4}$	$7.290 \times 10^{-3}$
0.0833	0.3667	$2.207 \times 10^{-4}$	1.000	$-1.749 \times 10^{-4}$	$7.247 \times 10^{-3}$
0.1000	0.3667	$2.232 \times 10^{-4}$	1.000	$3.629 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.1167	0.3667	$2.232 \times 10^{-4}$	1.000	$-3.095 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.1333	0.3667	$2.236 \times 10^{-4}$	1.000	$-2.662 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.1500	0.3667	$2.240 \times 10^{-4}$	1.000	$-1.719 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.1667	0.3667	$2.235 \times 10^{-4}$	1.000	$-2.396 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.1833	0.3667	$2.236 \times 10^{-4}$	1.000	$-2.974 \times 10^{-5}$	$7.407 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.2000	0.3667	$2.238 \times 10^{-4}$	1.001	$5.128 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.2167	0.3667	$2.237 \times 10^{-4}$	1.000	$6.933 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.2333	0.3667	$2.233 \times 10^{-4}$	1.000	$3.344 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.2500	0.3667	$2.232 \times 10^{-4}$	1.000	$3.409 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.2667	0.3667	$2.237 \times 10^{-4}$	1.000	$9.098 \times 10^{-5}$	$7.381 \times 10^{-3}$
0.2833	0.3667	$2.246 \times 10^{-4}$	1.000	$2.772 \times 10^{-4}$	$7.409 \times 10^{-3}$
0.3000	0.3667	$2.225 \times 10^{-4}$	1.000	$-8.193 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.3167	0.3667	$2.216 \times 10^{-4}$	1.000	$-7.535 \times 10^{-4}$	$7.310 \times 10^{-3}$
0.3333	0.3667	$2.215 \times 10^{-4}$	1.001	$8.399 \times 10^{-6}$	$7.281 \times 10^{-3}$
0.3500	0.3667	$2.231 \times 10^{-4}$	1.001	$7.174 \times 10^{-5}$	$7.339 \times 10^{-3}$
0.3667	0.3667	$2.238 \times 10^{-4}$	1.001	$2.320 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.3833	0.3667	$2.231 \times 10^{-4}$	1.000	$-2.623 \times 10^{-5}$	$7.348 \times 10^{-3}$
0.4000	0.3667	$2.234 \times 10^{-4}$	1.000	$1.747 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.4167	0.3667	$2.243 \times 10^{-4}$	1.001	$-2.819 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.4333	0.3667	$2.251 \times 10^{-4}$	1.000	$-1.943 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.4500	0.3667	$2.237 \times 10^{-4}$	1.001	$-1.261 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.4667	0.3667	$2.228 \times 10^{-4}$	1.000	$4.450 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.4833	0.3667	$2.232 \times 10^{-4}$	1.000	$1.199 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.5000	0.3667	$2.237 \times 10^{-4}$	1.000	$2.380 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.5167	0.3667	$2.233 \times 10^{-4}$	1.000	$2.528 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.5333	0.3667	$2.224 \times 10^{-4}$	1.000	$-1.403 \times 10^{-4}$	$7.312 \times 10^{-3}$
0.5500	0.3667	$2.223 \times 10^{-4}$	1.000	$-5.222 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.5667	0.3667	$2.229 \times 10^{-4}$	1.001	$-1.869 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.5833	0.3667	$2.239 \times 10^{-4}$	1.001	$-9.669 \times 10^{-5}$	$7.391 \times 10^{-3}$
0.6000	0.3667	$2.243 \times 10^{-4}$	1.000	$-5.958 \times 10^{-5}$	$7.426 \times 10^{-3}$
0.6167	0.3667	$2.235 \times 10^{-4}$	1.001	$-2.756 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.6333	0.3667	$2.249 \times 10^{-4}$	1.000	$-2.694 \times 10^{-4}$	$7.448 \times 10^{-3}$
0.6500	0.3667	$2.255 \times 10^{-4}$	1.000	$-5.696 \times 10^{-4}$	$7.470 \times 10^{-3}$
0.6667	0.3667	$2.247 \times 10^{-4}$	1.001	$-1.417 \times 10^{-3}$	$7.432 \times 10^{-3}$
0.6833	0.3667	$2.241 \times 10^{-4}$	1.000	$-6.797 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.7000	0.3667	$2.251 \times 10^{-4}$	1.000	$-1.586 \times 10^{-4}$	$7.449 \times 10^{-3}$
0.7167	0.3667	$2.245 \times 10^{-4}$	1.000	$-2.691 \times 10^{-4}$	$7.405 \times 10^{-3}$
0.7333	0.3667	$2.235 \times 10^{-4}$	1.000	$-1.047 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.7500	0.3667	$2.235 \times 10^{-4}$	1.001	$-3.690 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.7667	0.3667	$2.247 \times 10^{-4}$	1.001	$2.578 \times 10^{-5}$	$7.408 \times 10^{-3}$
0.7833	0.3667	$2.249 \times 10^{-4}$	1.001	$-1.735 \times 10^{-4}$	$7.418 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8000	0.3667	$2.250 \times 10^{-4}$	1.000	$1.001 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.8167	0.3667	$2.246 \times 10^{-4}$	1.000	$5.101 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.8333	0.3667	$2.243 \times 10^{-4}$	1.000	$6.043 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.8500	0.3667	$2.237 \times 10^{-4}$	1.000	$-1.012 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.8667	0.3667	$2.232 \times 10^{-4}$	1.000	$3.896 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.8833	0.3667	$2.240 \times 10^{-4}$	1.000	$7.538 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.9000	0.3667	$2.258 \times 10^{-4}$	1.001	$9.146 \times 10^{-4}$	$7.518 \times 10^{-3}$
0.9167	0.3667	$2.619 \times 10^{-4}$	0.943	$6.831 \times 10^{-2}$	$2.698 \times 10^{-2}$
0.9333	0.3667	$8.578 \times 10^{-4}$	0.684	0.362	$2.434 \times 10^{-1}$
0.9500	0.3667	$9.653 \times 10^{-4}$	0.659	0.379	$2.913 \times 10^{-1}$
0.9667	0.3667	$8.556 \times 10^{-4}$	0.664	0.370	$2.560 \times 10^{-1}$
0.9833	0.3667	$7.934 \times 10^{-4}$	0.662	0.357	$2.298 \times 10^{-1}$
1.0000	0.3667	$7.401 \times 10^{-4}$	0.663	0.342	$2.034 \times 10^{-1}$
0.0000	0.3833	$2.241 \times 10^{-4}$	1.000	$-6.484 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.0167	0.3833	$2.243 \times 10^{-4}$	1.000	$-5.706 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.0333	0.3833	$2.251 \times 10^{-4}$	1.000	$1.515 \times 10^{-5}$	$7.399 \times 10^{-3}$
0.0500	0.3833	$2.254 \times 10^{-4}$	1.000	$4.356 \times 10^{-4}$	$7.420 \times 10^{-3}$
0.0667	0.3833	$2.247 \times 10^{-4}$	1.000	$4.903 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.0833	0.3833	$2.237 \times 10^{-4}$	1.000	$4.822 \times 10^{-5}$	$7.321 \times 10^{-3}$
0.1000	0.3833	$2.219 \times 10^{-4}$	1.000	$-8.254 \times 10^{-6}$	$7.291 \times 10^{-3}$
0.1167	0.3833	$2.231 \times 10^{-4}$	1.000	$-1.840 \times 10^{-4}$	$7.338 \times 10^{-3}$
0.1333	0.3833	$2.232 \times 10^{-4}$	1.000	$-1.760 \times 10^{-4}$	$7.316 \times 10^{-3}$
0.1500	0.3833	$2.233 \times 10^{-4}$	1.000	$-2.554 \times 10^{-4}$	$7.331 \times 10^{-3}$
0.1667	0.3833	$2.235 \times 10^{-4}$	1.000	$-1.633 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.1833	0.3833	$2.234 \times 10^{-4}$	1.000	$-3.498 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.2000	0.3833	$2.242 \times 10^{-4}$	1.000	$-1.590 \times 10^{-6}$	$7.367 \times 10^{-3}$
0.2167	0.3833	$2.242 \times 10^{-4}$	1.001	$-1.883 \times 10^{-4}$	$7.401 \times 10^{-3}$
0.2333	0.3833	$2.236 \times 10^{-4}$	1.000	$-4.661 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.2500	0.3833	$2.239 \times 10^{-4}$	1.000	$-2.126 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.2667	0.3833	$2.238 \times 10^{-4}$	1.000	$-9.499 \times 10^{-5}$	$7.365 \times 10^{-3}$
0.2833	0.3833	$2.247 \times 10^{-4}$	1.000	$6.343 \times 10^{-5}$	$7.396 \times 10^{-3}$
0.3000	0.3833	$2.239 \times 10^{-4}$	1.000	$-2.521 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.3167	0.3833	$2.250 \times 10^{-4}$	1.000	$3.991 \times 10^{-5}$	$7.411 \times 10^{-3}$
0.3333	0.3833	$2.233 \times 10^{-4}$	1.000	$4.876 \times 10^{-4}$	$7.322 \times 10^{-3}$
0.3500	0.3833	$2.251 \times 10^{-4}$	1.000	$-1.007 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.3667	0.3833	$2.238 \times 10^{-4}$	1.000	$1.613 \times 10^{-4}$	$7.373 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.3833	0.3833	$2.239 \times 10^{-4}$	1.000	$2.399 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.4000	0.3833	$2.232 \times 10^{-4}$	1.000	$1.257 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.4167	0.3833	$2.240 \times 10^{-4}$	1.000	$1.820 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.4333	0.3833	$2.240 \times 10^{-4}$	1.000	$1.154 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.4500	0.3833	$2.246 \times 10^{-4}$	1.000	$8.582 \times 10^{-6}$	$7.411 \times 10^{-3}$
0.4667	0.3833	$2.243 \times 10^{-4}$	1.000	$-9.730 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.4833	0.3833	$2.243 \times 10^{-4}$	1.000	$-4.717 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.5000	0.3833	$2.235 \times 10^{-4}$	1.000	$-6.174 \times 10^{-4}$	$7.356 \times 10^{-3}$
0.5167	0.3833	$2.244 \times 10^{-4}$	1.000	$-3.805 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.5333	0.3833	$2.258 \times 10^{-4}$	1.000	$-4.001 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.5500	0.3833	$2.248 \times 10^{-4}$	1.000	$-1.220 \times 10^{-4}$	$7.404 \times 10^{-3}$
0.5667	0.3833	$2.244 \times 10^{-4}$	1.000	$-5.586 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.5833	0.3833	$2.251 \times 10^{-4}$	1.000	$-2.349 \times 10^{-4}$	$7.447 \times 10^{-3}$
0.6000	0.3833	$2.245 \times 10^{-4}$	1.000	$1.841 \times 10^{-4}$	$7.411 \times 10^{-3}$
0.6167	0.3833	$2.238 \times 10^{-4}$	1.000	$-1.181 \times 10^{-5}$	$7.365 \times 10^{-3}$
0.6333	0.3833	$2.248 \times 10^{-4}$	1.000	$-1.025 \times 10^{-4}$	$7.401 \times 10^{-3}$
0.6500	0.3833	$2.258 \times 10^{-4}$	1.001	$3.051 \times 10^{-4}$	$7.439 \times 10^{-3}$
0.6667	0.3833	$2.255 \times 10^{-4}$	1.000	$4.415 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.6833	0.3833	$2.248 \times 10^{-4}$	1.000	$9.123 \times 10^{-5}$	$7.388 \times 10^{-3}$
0.7000	0.3833	$2.237 \times 10^{-4}$	1.000	$1.606 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.7167	0.3833	$2.251 \times 10^{-4}$	1.000	$-2.723 \times 10^{-5}$	$7.430 \times 10^{-3}$
0.7333	0.3833	$2.252 \times 10^{-4}$	1.000	$6.606 \times 10^{-4}$	$7.410 \times 10^{-3}$
0.7500	0.3833	$2.247 \times 10^{-4}$	1.000	$-3.438 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.7667	0.3833	$2.235 \times 10^{-4}$	1.000	$-1.256 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.7833	0.3833	$2.247 \times 10^{-4}$	1.000	$-2.778 \times 10^{-5}$	$7.421 \times 10^{-3}$
0.8000	0.3833	$2.241 \times 10^{-4}$	1.000	$-1.186 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.8167	0.3833	$2.231 \times 10^{-4}$	1.000	$-1.990 \times 10^{-4}$	$7.334 \times 10^{-3}$
0.8333	0.3833	$2.235 \times 10^{-4}$	1.000	$4.191 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.8500	0.3833	$2.243 \times 10^{-4}$	1.000	$-2.105 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.8667	0.3833	$2.254 \times 10^{-4}$	0.999	$8.363 \times 10^{-4}$	$7.413 \times 10^{-3}$
0.8833	0.3833	$2.259 \times 10^{-4}$	1.000	$7.181 \times 10^{-4}$	$7.434 \times 10^{-3}$
0.9000	0.3833	$2.254 \times 10^{-4}$	1.000	$3.172 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.9167	0.3833	$2.244 \times 10^{-4}$	1.000	$6.831 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.9333	0.3833	$2.410 \times 10^{-4}$	0.978	$2.820 \times 10^{-2}$	$1.511 \times 10^{-2}$
0.9500	0.3833	$6.813 \times 10^{-4}$	0.737	0.318	$1.725 \times 10^{-1}$
0.9667	0.3833	$9.918 \times 10^{-4}$	0.680	0.374	$2.822 \times 10^{-1}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9833	0.3833	$8.685 \times 10^{-4}$	0.682	0.363	$2.505 \times 10^{-1}$
1.0000	0.3833	$7.839 \times 10^{-4}$	0.681	0.349	$2.232 \times 10^{-1}$
0.0000	0.4000	$2.234 \times 10^{-4}$	1.000	$7.491 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.0167	0.4000	$2.235 \times 10^{-4}$	1.000	$4.850 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.0333	0.4000	$2.244 \times 10^{-4}$	1.000	$2.727 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.0500	0.4000	$2.250 \times 10^{-4}$	1.000	$-2.721 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.0667	0.4000	$2.242 \times 10^{-4}$	1.000	$-2.339 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.0833	0.4000	$2.244 \times 10^{-4}$	1.000	$-2.011 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.1000	0.4000	$2.241 \times 10^{-4}$	1.000	$4.408 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.1167	0.4000	$2.249 \times 10^{-4}$	1.000	$-4.090 \times 10^{-4}$	$7.425 \times 10^{-3}$
0.1333	0.4000	$2.244 \times 10^{-4}$	1.000	$-3.058 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.1500	0.4000	$2.240 \times 10^{-4}$	1.000	$4.168 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.1667	0.4000	$2.246 \times 10^{-4}$	1.000	$2.924 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.1833	0.4000	$2.253 \times 10^{-4}$	1.000	$-1.954 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.2000	0.4000	$2.234 \times 10^{-4}$	1.000	$-1.109 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.2167	0.4000	$2.226 \times 10^{-4}$	1.000	$6.330 \times 10^{-5}$	$7.336 \times 10^{-3}$
0.2333	0.4000	$2.236 \times 10^{-4}$	1.000	$3.361 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.2500	0.4000	$2.231 \times 10^{-4}$	1.000	$6.238 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.2667	0.4000	$2.240 \times 10^{-4}$	1.000	$6.794 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.2833	0.4000	$2.239 \times 10^{-4}$	1.000	$-1.700 \times 10^{-4}$	$7.386 \times 10^{-3}$
0.3000	0.4000	$2.241 \times 10^{-4}$	1.000	$4.199 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.3167	0.4000	$2.238 \times 10^{-4}$	1.000	$-1.164 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.3333	0.4000	$2.234 \times 10^{-4}$	1.000	$2.039 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.3500	0.4000	$2.235 \times 10^{-4}$	1.001	$-8.349 \times 10^{-5}$	$7.371 \times 10^{-3}$
0.3667	0.4000	$2.236 \times 10^{-4}$	1.000	$2.438 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.3833	0.4000	$2.227 \times 10^{-4}$	1.001	$2.259 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.4000	0.4000	$2.245 \times 10^{-4}$	1.000	$5.553 \times 10^{-5}$	$7.427 \times 10^{-3}$
0.4167	0.4000	$2.261 \times 10^{-4}$	1.000	$-1.215 \times 10^{-3}$	$7.485 \times 10^{-3}$
0.4333	0.4000	$2.263 \times 10^{-4}$	1.000	$-9.741 \times 10^{-4}$	$7.490 \times 10^{-3}$
0.4500	0.4000	$2.243 \times 10^{-4}$	1.000	$-1.402 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.4667	0.4000	$2.242 \times 10^{-4}$	1.000	$4.041 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.4833	0.4000	$2.237 \times 10^{-4}$	1.001	$7.821 \times 10^{-6}$	$7.385 \times 10^{-3}$
0.5000	0.4000	$2.248 \times 10^{-4}$	1.000	$-1.636 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.5167	0.4000	$2.254 \times 10^{-4}$	1.000	$-1.630 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.5333	0.4000	$2.250 \times 10^{-4}$	1.000	$-8.181 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.5500	0.4000	$2.241 \times 10^{-4}$	1.000	$-5.444 \times 10^{-4}$	$7.382 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.5667	0.4000	$2.233 \times 10^{-4}$	1.000	$-9.134 \times 10^{-5}$	$7.325 \times 10^{-3}$
0.5833	0.4000	$2.245 \times 10^{-4}$	1.000	$-7.942 \times 10^{-6}$	$7.370 \times 10^{-3}$
0.6000	0.4000	$2.248 \times 10^{-4}$	1.000	$8.383 \times 10^{-5}$	$7.381 \times 10^{-3}$
0.6167	0.4000	$2.236 \times 10^{-4}$	1.000	$3.546 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.6333	0.4000	$2.244 \times 10^{-4}$	1.001	$2.603 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.6500	0.4000	$2.243 \times 10^{-4}$	1.001	$-3.871 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.6667	0.4000	$2.251 \times 10^{-4}$	1.000	$-1.873 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.6833	0.4000	$2.252 \times 10^{-4}$	1.000	$-1.267 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.7000	0.4000	$2.247 \times 10^{-4}$	1.001	$4.094 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.7167	0.4000	$2.238 \times 10^{-4}$	1.000	$3.713 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.7333	0.4000	$2.242 \times 10^{-4}$	1.000	$1.948 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.7500	0.4000	$2.236 \times 10^{-4}$	1.000	$-2.343 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.7667	0.4000	$2.235 \times 10^{-4}$	1.000	$-9.280 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.7833	0.4000	$2.235 \times 10^{-4}$	1.000	$-2.506 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.8000	0.4000	$2.230 \times 10^{-4}$	1.000	$-2.083 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.8167	0.4000	$2.228 \times 10^{-4}$	1.000	$-1.316 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.8333	0.4000	$2.234 \times 10^{-4}$	1.000	$-9.516 \times 10^{-5}$	$7.361 \times 10^{-3}$
0.8500	0.4000	$2.216 \times 10^{-4}$	1.000	$-7.792 \times 10^{-4}$	$7.300 \times 10^{-3}$
0.8667	0.4000	$2.224 \times 10^{-4}$	1.000	$-5.251 \times 10^{-4}$	$7.334 \times 10^{-3}$
0.8833	0.4000	$2.224 \times 10^{-4}$	1.000	$-1.149 \times 10^{-3}$	$7.336 \times 10^{-3}$
0.9000	0.4000	$2.219 \times 10^{-4}$	1.000	$-4.284 \times 10^{-4}$	$7.306 \times 10^{-3}$
0.9167	0.4000	$2.215 \times 10^{-4}$	1.001	$-6.522 \times 10^{-4}$	$7.321 \times 10^{-3}$
0.9333	0.4000	$2.217 \times 10^{-4}$	1.001	$2.209 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.9500	0.4000	$2.241 \times 10^{-4}$	0.997	$6.385 \times 10^{-3}$	$8.944 \times 10^{-3}$
0.9667	0.4000	$4.447 \times 10^{-4}$	0.825	0.225	$8.982 \times 10^{-2}$
0.9833	0.4000	$9.864 \times 10^{-4}$	0.707	0.370	$2.602 \times 10^{-1}$
1.0000	0.4000	$8.906 \times 10^{-4}$	0.703	0.360	$2.424 \times 10^{-1}$
0.0000	0.4167	$2.248 \times 10^{-4}$	1.000	$-8.298 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.0167	0.4167	$2.238 \times 10^{-4}$	1.000	$-9.259 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.0333	0.4167	$2.247 \times 10^{-4}$	1.000	$-8.344 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.0500	0.4167	$2.246 \times 10^{-4}$	1.000	$-6.071 \times 10^{-4}$	$7.440 \times 10^{-3}$
0.0667	0.4167	$2.242 \times 10^{-4}$	1.000	$3.524 \times 10^{-5}$	$7.429 \times 10^{-3}$
0.0833	0.4167	$2.241 \times 10^{-4}$	1.000	$-5.747 \times 10^{-6}$	$7.386 \times 10^{-3}$
0.1000	0.4167	$2.233 \times 10^{-4}$	1.001	$3.447 \times 10^{-5}$	$7.321 \times 10^{-3}$
0.1167	0.4167	$2.245 \times 10^{-4}$	1.000	$-2.251 \times 10^{-4}$	$7.395 \times 10^{-3}$
0.1333	0.4167	$2.238 \times 10^{-4}$	1.000	$2.008 \times 10^{-4}$	$7.382 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.1500	0.4167	$2.235 \times 10^{-4}$	1.000	$3.175 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.1667	0.4167	$2.236 \times 10^{-4}$	1.000	$6.434 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.1833	0.4167	$2.257 \times 10^{-4}$	1.000	$3.959 \times 10^{-4}$	$7.458 \times 10^{-3}$
0.2000	0.4167	$2.244 \times 10^{-4}$	1.000	$4.223 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.2167	0.4167	$2.232 \times 10^{-4}$	1.000	$5.316 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.2333	0.4167	$2.224 \times 10^{-4}$	1.000	$4.152 \times 10^{-4}$	$7.323 \times 10^{-3}$
0.2500	0.4167	$2.234 \times 10^{-4}$	1.000	$1.586 \times 10^{-4}$	$7.354 \times 10^{-3}$
0.2667	0.4167	$2.234 \times 10^{-4}$	1.000	$-3.318 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.2833	0.4167	$2.226 \times 10^{-4}$	1.000	$-8.350 \times 10^{-5}$	$7.315 \times 10^{-3}$
0.3000	0.4167	$2.235 \times 10^{-4}$	1.001	$4.336 \times 10^{-4}$	$7.325 \times 10^{-3}$
0.3167	0.4167	$2.240 \times 10^{-4}$	1.000	$4.004 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.3333	0.4167	$2.247 \times 10^{-4}$	1.000	$2.981 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.3500	0.4167	$2.236 \times 10^{-4}$	1.000	$5.685 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.3667	0.4167	$2.242 \times 10^{-4}$	1.000	$4.882 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.3833	0.4167	$2.250 \times 10^{-4}$	1.000	$9.473 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.4000	0.4167	$2.250 \times 10^{-4}$	1.000	$6.023 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.4167	0.4167	$2.244 \times 10^{-4}$	1.000	$4.107 \times 10^{-5}$	$7.364 \times 10^{-3}$
0.4333	0.4167	$2.253 \times 10^{-4}$	1.000	$-1.676 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.4500	0.4167	$2.263 \times 10^{-4}$	1.000	$-1.145 \times 10^{-4}$	$7.454 \times 10^{-3}$
0.4667	0.4167	$2.252 \times 10^{-4}$	1.000	$1.562 \times 10^{-5}$	$7.414 \times 10^{-3}$
0.4833	0.4167	$2.258 \times 10^{-4}$	1.000	$9.107 \times 10^{-5}$	$7.444 \times 10^{-3}$
0.5000	0.4167	$2.251 \times 10^{-4}$	1.000	$2.827 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.5167	0.4167	$2.250 \times 10^{-4}$	0.999	$2.987 \times 10^{-4}$	$7.412 \times 10^{-3}$
0.5333	0.4167	$2.270 \times 10^{-4}$	1.000	$4.520 \times 10^{-4}$	$7.485 \times 10^{-3}$
0.5500	0.4167	$2.246 \times 10^{-4}$	1.000	$1.318 \times 10^{-5}$	$7.408 \times 10^{-3}$
0.5667	0.4167	$2.237 \times 10^{-4}$	1.000	$-9.762 \times 10^{-6}$	$7.353 \times 10^{-3}$
0.5833	0.4167	$2.234 \times 10^{-4}$	1.000	$2.361 \times 10^{-4}$	$7.341 \times 10^{-3}$
0.6000	0.4167	$2.221 \times 10^{-4}$	1.000	$3.651 \times 10^{-5}$	$7.268 \times 10^{-3}$
0.6167	0.4167	$2.231 \times 10^{-4}$	1.000	$3.054 \times 10^{-5}$	$7.314 \times 10^{-3}$
0.6333	0.4167	$2.233 \times 10^{-4}$	1.000	$-4.266 \times 10^{-4}$	$7.341 \times 10^{-3}$
0.6500	0.4167	$2.229 \times 10^{-4}$	1.000	$-3.508 \times 10^{-4}$	$7.302 \times 10^{-3}$
0.6667	0.4167	$2.237 \times 10^{-4}$	1.000	$-1.110 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.6833	0.4167	$2.246 \times 10^{-4}$	1.000	$-3.926 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.7000	0.4167	$2.249 \times 10^{-4}$	1.000	$-1.669 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.7167	0.4167	$2.237 \times 10^{-4}$	1.000	$-2.695 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.7333	0.4167	$2.236 \times 10^{-4}$	1.000	$-8.271 \times 10^{-4}$	$7.409 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7500	0.4167	$2.244 \times 10^{-4}$	1.000	$-6.818 \times 10^{-4}$	$7.437 \times 10^{-3}$
0.7667	0.4167	$2.240 \times 10^{-4}$	1.000	$-2.226 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.7833	0.4167	$2.238 \times 10^{-4}$	1.000	$-2.309 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.8000	0.4167	$2.238 \times 10^{-4}$	1.000	$-1.691 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.8167	0.4167	$2.231 \times 10^{-4}$	1.000	$-4.639 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.8333	0.4167	$2.220 \times 10^{-4}$	1.000	$-8.977 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.8500	0.4167	$2.218 \times 10^{-4}$	1.001	$-8.179 \times 10^{-4}$	$7.327 \times 10^{-3}$
0.8667	0.4167	$2.235 \times 10^{-4}$	1.001	$-6.089 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.8833	0.4167	$2.223 \times 10^{-4}$	1.001	$-4.201 \times 10^{-4}$	$7.344 \times 10^{-3}$
0.9000	0.4167	$2.222 \times 10^{-4}$	1.000	$-1.041 \times 10^{-4}$	$7.321 \times 10^{-3}$
0.9167	0.4167	$2.232 \times 10^{-4}$	1.000	$-4.257 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.9333	0.4167	$2.233 \times 10^{-4}$	1.000	$-5.988 \times 10^{-5}$	$7.357 \times 10^{-3}$
0.9500	0.4167	$2.230 \times 10^{-4}$	1.000	$-3.198 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.9667	0.4167	$2.229 \times 10^{-4}$	0.999	$3.460 \times 10^{-4}$	$7.509 \times 10^{-3}$
0.9833	0.4167	$2.933 \times 10^{-4}$	0.927	$9.967 \times 10^{-2}$	$3.415 \times 10^{-2}$
1.0000	0.4167	$8.787 \times 10^{-4}$	0.739	0.350	$2.124 \times 10^{-1}$
0.0000	0.4333	$2.235 \times 10^{-4}$	1.000	$-2.422 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.0167	0.4333	$2.242 \times 10^{-4}$	1.000	$-1.104 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.0333	0.4333	$2.233 \times 10^{-4}$	1.000	$-1.167 \times 10^{-4}$	$7.341 \times 10^{-3}$
0.0500	0.4333	$2.237 \times 10^{-4}$	1.000	$2.354 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.0667	0.4333	$2.239 \times 10^{-4}$	1.000	$1.769 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.0833	0.4333	$2.237 \times 10^{-4}$	1.000	$-1.441 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.1000	0.4333	$2.223 \times 10^{-4}$	1.000	$3.567 \times 10^{-4}$	$7.326 \times 10^{-3}$
0.1167	0.4333	$2.234 \times 10^{-4}$	1.001	$1.166 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.1333	0.4333	$2.232 \times 10^{-4}$	1.000	$6.373 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.1500	0.4333	$2.226 \times 10^{-4}$	1.000	$4.879 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.1667	0.4333	$2.223 \times 10^{-4}$	1.000	$-2.121 \times 10^{-4}$	$7.321 \times 10^{-3}$
0.1833	0.4333	$2.225 \times 10^{-4}$	1.000	$-3.395 \times 10^{-5}$	$7.344 \times 10^{-3}$
0.2000	0.4333	$2.216 \times 10^{-4}$	1.001	$3.867 \times 10^{-4}$	$7.305 \times 10^{-3}$
0.2167	0.4333	$2.226 \times 10^{-4}$	1.000	$3.612 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.2333	0.4333	$2.237 \times 10^{-4}$	1.000	$-6.304 \times 10^{-6}$	$7.351 \times 10^{-3}$
0.2500	0.4333	$2.235 \times 10^{-4}$	1.000	$-1.338 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.2667	0.4333	$2.237 \times 10^{-4}$	1.000	$-1.782 \times 10^{-4}$	$7.356 \times 10^{-3}$
0.2833	0.4333	$2.238 \times 10^{-4}$	1.000	$1.991 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.3000	0.4333	$2.231 \times 10^{-4}$	1.000	$1.016 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.3167	0.4333	$2.229 \times 10^{-4}$	1.000	$5.478 \times 10^{-4}$	$7.344 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.3333	0.4333	$2.236 \times 10^{-4}$	1.000	$-1.585 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.3500	0.4333	$2.231 \times 10^{-4}$	1.000	$7.544 \times 10^{-5}$	$7.352 \times 10^{-3}$
0.3667	0.4333	$2.234 \times 10^{-4}$	1.000	$2.821 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.3833	0.4333	$2.237 \times 10^{-4}$	1.000	$1.485 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.4000	0.4333	$2.237 \times 10^{-4}$	1.000	$-3.021 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.4167	0.4333	$2.233 \times 10^{-4}$	1.000	$-1.867 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.4333	0.4333	$2.239 \times 10^{-4}$	1.000	$1.420 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.4500	0.4333	$2.246 \times 10^{-4}$	1.000	$4.539 \times 10^{-4}$	$7.395 \times 10^{-3}$
0.4667	0.4333	$2.243 \times 10^{-4}$	1.000	$3.825 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.4833	0.4333	$2.243 \times 10^{-4}$	1.000	$4.813 \times 10^{-4}$	$7.395 \times 10^{-3}$
0.5000	0.4333	$2.245 \times 10^{-4}$	1.000	$6.905 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.5167	0.4333	$2.246 \times 10^{-4}$	1.000	$8.854 \times 10^{-5}$	$7.409 \times 10^{-3}$
0.5333	0.4333	$2.250 \times 10^{-4}$	1.000	$5.194 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.5500	0.4333	$2.243 \times 10^{-4}$	1.000	$3.188 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.5667	0.4333	$2.241 \times 10^{-4}$	1.000	$3.425 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.5833	0.4333	$2.251 \times 10^{-4}$	1.000	$-4.062 \times 10^{-4}$	$7.404 \times 10^{-3}$
0.6000	0.4333	$2.243 \times 10^{-4}$	1.000	$-2.831 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.6167	0.4333	$2.259 \times 10^{-4}$	1.000	$-2.177 \times 10^{-4}$	$7.441 \times 10^{-3}$
0.6333	0.4333	$2.252 \times 10^{-4}$	1.000	$-2.161 \times 10^{-4}$	$7.443 \times 10^{-3}$
0.6500	0.4333	$2.241 \times 10^{-4}$	1.000	$-8.656 \times 10^{-5}$	$7.405 \times 10^{-3}$
0.6667	0.4333	$2.236 \times 10^{-4}$	1.000	$-2.403 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.6833	0.4333	$2.232 \times 10^{-4}$	1.001	$-1.816 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.7000	0.4333	$2.234 \times 10^{-4}$	1.000	$-3.312 \times 10^{-4}$	$7.329 \times 10^{-3}$
0.7167	0.4333	$2.232 \times 10^{-4}$	1.001	$-3.735 \times 10^{-4}$	$7.316 \times 10^{-3}$
0.7333	0.4333	$2.233 \times 10^{-4}$	1.001	$-6.990 \times 10^{-5}$	$7.328 \times 10^{-3}$
0.7500	0.4333	$2.237 \times 10^{-4}$	1.001	$5.398 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.7667	0.4333	$2.239 \times 10^{-4}$	1.001	$2.544 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.7833	0.4333	$2.236 \times 10^{-4}$	1.000	$2.526 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.8000	0.4333	$2.229 \times 10^{-4}$	1.001	$1.696 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.8167	0.4333	$2.232 \times 10^{-4}$	1.000	$-4.370 \times 10^{-5}$	$7.373 \times 10^{-3}$
0.8333	0.4333	$2.227 \times 10^{-4}$	1.000	$4.165 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.8500	0.4333	$2.233 \times 10^{-4}$	1.000	$1.138 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.8667	0.4333	$2.241 \times 10^{-4}$	1.000	$1.821 \times 10^{-4}$	$7.405 \times 10^{-3}$
0.8833	0.4333	$2.236 \times 10^{-4}$	0.999	$6.118 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.9000	0.4333	$2.244 \times 10^{-4}$	1.000	$2.632 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.9167	0.4333	$2.236 \times 10^{-4}$	1.000	$2.666 \times 10^{-4}$	$7.394 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9333	0.4333	$2.227 \times 10^{-4}$	1.000	$-1.435 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.9500	0.4333	$2.232 \times 10^{-4}$	1.000	$-2.786 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.9667	0.4333	$2.215 \times 10^{-4}$	1.000	$-3.347 \times 10^{-4}$	$7.310 \times 10^{-3}$
0.9833	0.4333	$2.224 \times 10^{-4}$	1.000	$1.014 \times 10^{-4}$	$7.382 \times 10^{-3}$
1.0000	0.4333	$2.340 \times 10^{-4}$	0.984	$2.172 \times 10^{-2}$	$1.249 \times 10^{-2}$
0.0000	0.4500	$2.243 \times 10^{-4}$	1.000	$3.256 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.0167	0.4500	$2.239 \times 10^{-4}$	1.000	$3.060 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.0333	0.4500	$2.244 \times 10^{-4}$	1.000	$3.207 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.0500	0.4500	$2.235 \times 10^{-4}$	1.000	$2.551 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.0667	0.4500	$2.226 \times 10^{-4}$	1.000	$6.478 \times 10^{-5}$	$7.344 \times 10^{-3}$
0.0833	0.4500	$2.241 \times 10^{-4}$	1.000	$3.322 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.1000	0.4500	$2.253 \times 10^{-4}$	1.000	$2.683 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.1167	0.4500	$2.250 \times 10^{-4}$	1.000	$-8.855 \times 10^{-5}$	$7.372 \times 10^{-3}$
0.1333	0.4500	$2.240 \times 10^{-4}$	1.000	$-5.746 \times 10^{-5}$	$7.347 \times 10^{-3}$
0.1500	0.4500	$2.233 \times 10^{-4}$	1.000	$7.962 \times 10^{-5}$	$7.341 \times 10^{-3}$
0.1667	0.4500	$2.228 \times 10^{-4}$	1.000	$4.566 \times 10^{-4}$	$7.333 \times 10^{-3}$
0.1833	0.4500	$2.230 \times 10^{-4}$	1.000	$2.263 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.2000	0.4500	$2.236 \times 10^{-4}$	1.000	$-3.287 \times 10^{-4}$	$7.386 \times 10^{-3}$
0.2167	0.4500	$2.248 \times 10^{-4}$	1.000	$-2.690 \times 10^{-4}$	$7.428 \times 10^{-3}$
0.2333	0.4500	$2.245 \times 10^{-4}$	1.000	$-9.952 \times 10^{-5}$	$7.415 \times 10^{-3}$
0.2500	0.4500	$2.241 \times 10^{-4}$	1.000	$-3.031 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.2667	0.4500	$2.241 \times 10^{-4}$	1.000	$-2.224 \times 10^{-4}$	$7.410 \times 10^{-3}$
0.2833	0.4500	$2.245 \times 10^{-4}$	1.000	$-9.784 \times 10^{-5}$	$7.390 \times 10^{-3}$
0.3000	0.4500	$2.246 \times 10^{-4}$	1.000	$-2.449 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.3167	0.4500	$2.237 \times 10^{-4}$	1.000	$-1.674 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.3333	0.4500	$2.236 \times 10^{-4}$	1.000	$3.708 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.3500	0.4500	$2.229 \times 10^{-4}$	1.000	$-1.045 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.3667	0.4500	$2.242 \times 10^{-4}$	1.000	$2.697 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.3833	0.4500	$2.238 \times 10^{-4}$	1.000	$4.472 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.4000	0.4500	$2.232 \times 10^{-4}$	1.000	$4.704 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.4167	0.4500	$2.229 \times 10^{-4}$	1.001	$3.465 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.4333	0.4500	$2.244 \times 10^{-4}$	1.001	$-2.254 \times 10^{-5}$	$7.443 \times 10^{-3}$
0.4500	0.4500	$2.246 \times 10^{-4}$	1.001	$2.088 \times 10^{-4}$	$7.453 \times 10^{-3}$
0.4667	0.4500	$2.235 \times 10^{-4}$	1.000	$8.084 \times 10^{-5}$	$7.410 \times 10^{-3}$
0.4833	0.4500	$2.242 \times 10^{-4}$	1.000	$5.194 \times 10^{-5}$	$7.414 \times 10^{-3}$
0.5000	0.4500	$2.232 \times 10^{-4}$	1.000	$-2.334 \times 10^{-4}$	$7.395 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.5167	0.4500	$2.230 \times 10^{-4}$	1.000	$-2.009 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.5333	0.4500	$2.231 \times 10^{-4}$	1.000	$-1.783 \times 10^{-5}$	$7.382 \times 10^{-3}$
0.5500	0.4500	$2.234 \times 10^{-4}$	1.000	$-3.512 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.5667	0.4500	$2.229 \times 10^{-4}$	1.000	$-3.481 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.5833	0.4500	$2.237 \times 10^{-4}$	1.000	$2.408 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.6000	0.4500	$2.237 \times 10^{-4}$	1.000	$3.678 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.6167	0.4500	$2.237 \times 10^{-4}$	1.000	$6.644 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.6333	0.4500	$2.235 \times 10^{-4}$	1.000	$4.938 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.6500	0.4500	$2.225 \times 10^{-4}$	1.000	$1.001 \times 10^{-3}$	$7.347 \times 10^{-3}$
0.6667	0.4500	$2.233 \times 10^{-4}$	1.000	$7.107 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.6833	0.4500	$2.238 \times 10^{-4}$	0.999	$2.981 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.7000	0.4500	$2.237 \times 10^{-4}$	1.000	$7.649 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.7167	0.4500	$2.230 \times 10^{-4}$	1.000	$6.905 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.7333	0.4500	$2.234 \times 10^{-4}$	1.000	$7.605 \times 10^{-4}$	$7.345 \times 10^{-3}$
0.7500	0.4500	$2.238 \times 10^{-4}$	1.000	$3.146 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.7667	0.4500	$2.239 \times 10^{-4}$	1.000	$3.069 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.7833	0.4500	$2.242 \times 10^{-4}$	1.000	$-7.275 \times 10^{-5}$	$7.395 \times 10^{-3}$
0.8000	0.4500	$2.242 \times 10^{-4}$	1.000	$4.125 \times 10^{-4}$	$7.410 \times 10^{-3}$
0.8167	0.4500	$2.246 \times 10^{-4}$	1.000	$3.427 \times 10^{-4}$	$7.405 \times 10^{-3}$
0.8333	0.4500	$2.242 \times 10^{-4}$	1.000	$1.728 \times 10^{-4}$	$7.429 \times 10^{-3}$
0.8500	0.4500	$2.243 \times 10^{-4}$	1.000	$3.141 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.8667	0.4500	$2.250 \times 10^{-4}$	1.000	$-1.575 \times 10^{-4}$	$7.454 \times 10^{-3}$
0.8833	0.4500	$2.255 \times 10^{-4}$	1.000	$5.331 \times 10^{-4}$	$7.468 \times 10^{-3}$
0.9000	0.4500	$2.229 \times 10^{-4}$	1.000	$4.617 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.9167	0.4500	$2.233 \times 10^{-4}$	1.000	$-7.090 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.9333	0.4500	$2.240 \times 10^{-4}$	1.000	$-3.830 \times 10^{-4}$	$7.404 \times 10^{-3}$
0.9500	0.4500	$2.238 \times 10^{-4}$	1.000	$-5.749 \times 10^{-4}$	$7.420 \times 10^{-3}$
0.9667	0.4500	$2.237 \times 10^{-4}$	1.000	$-9.673 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.9833	0.4500	$2.250 \times 10^{-4}$	1.000	$-1.281 \times 10^{-4}$	$7.445 \times 10^{-3}$
1.0000	0.4500	$2.241 \times 10^{-4}$	1.000	$-3.371 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.0000	0.4667	$2.229 \times 10^{-4}$	1.000	$-4.260 \times 10^{-5}$	$7.388 \times 10^{-3}$
0.0167	0.4667	$2.239 \times 10^{-4}$	1.000	$-1.399 \times 10^{-4}$	$7.404 \times 10^{-3}$
0.0333	0.4667	$2.233 \times 10^{-4}$	1.000	$-1.122 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.0500	0.4667	$2.233 \times 10^{-4}$	1.000	$-2.335 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.0667	0.4667	$2.222 \times 10^{-4}$	1.000	$-7.280 \times 10^{-5}$	$7.328 \times 10^{-3}$
0.0833	0.4667	$2.225 \times 10^{-4}$	1.000	$1.820 \times 10^{-4}$	$7.322 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.1000	0.4667	$2.226 \times 10^{-4}$	1.000	$3.974 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.1167	0.4667	$2.232 \times 10^{-4}$	1.000	$2.058 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.1333	0.4667	$2.239 \times 10^{-4}$	1.000	$-1.607 \times 10^{-5}$	$7.389 \times 10^{-3}$
0.1500	0.4667	$2.233 \times 10^{-4}$	1.000	$-4.023 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.1667	0.4667	$2.231 \times 10^{-4}$	1.000	$-1.148 \times 10^{-4}$	$7.401 \times 10^{-3}$
0.1833	0.4667	$2.221 \times 10^{-4}$	1.000	$3.410 \times 10^{-4}$	$7.345 \times 10^{-3}$
0.2000	0.4667	$2.224 \times 10^{-4}$	1.000	$2.985 \times 10^{-4}$	$7.327 \times 10^{-3}$
0.2167	0.4667	$2.221 \times 10^{-4}$	1.000	$2.385 \times 10^{-4}$	$7.313 \times 10^{-3}$
0.2333	0.4667	$2.224 \times 10^{-4}$	1.000	$9.415 \times 10^{-5}$	$7.340 \times 10^{-3}$
0.2500	0.4667	$2.221 \times 10^{-4}$	1.000	$-4.576 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.2667	0.4667	$2.234 \times 10^{-4}$	1.000	$-3.576 \times 10^{-4}$	$7.364 \times 10^{-3}$
0.2833	0.4667	$2.225 \times 10^{-4}$	1.000	$-5.670 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.3000	0.4667	$2.235 \times 10^{-4}$	1.000	$6.929 \times 10^{-5}$	$7.388 \times 10^{-3}$
0.3167	0.4667	$2.249 \times 10^{-4}$	1.000	$-1.979 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.3333	0.4667	$2.226 \times 10^{-4}$	1.000	$6.035 \times 10^{-5}$	$7.346 \times 10^{-3}$
0.3500	0.4667	$2.231 \times 10^{-4}$	1.000	$5.816 \times 10^{-5}$	$7.361 \times 10^{-3}$
0.3667	0.4667	$2.229 \times 10^{-4}$	1.000	$1.110 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.3833	0.4667	$2.224 \times 10^{-4}$	1.000	$1.964 \times 10^{-4}$	$7.317 \times 10^{-3}$
0.4000	0.4667	$2.236 \times 10^{-4}$	1.000	$8.121 \times 10^{-5}$	$7.375 \times 10^{-3}$
0.4167	0.4667	$2.244 \times 10^{-4}$	1.000	$-3.184 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.4333	0.4667	$2.237 \times 10^{-4}$	1.000	$-5.269 \times 10^{-5}$	$7.373 \times 10^{-3}$
0.4500	0.4667	$2.242 \times 10^{-4}$	1.000	$-4.378 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.4667	0.4667	$2.235 \times 10^{-4}$	1.000	$-4.304 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.4833	0.4667	$2.233 \times 10^{-4}$	1.000	$-8.348 \times 10^{-5}$	$7.360 \times 10^{-3}$
0.5000	0.4667	$2.240 \times 10^{-4}$	1.000	$-1.791 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.5167	0.4667	$2.234 \times 10^{-4}$	1.000	$-3.511 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.5333	0.4667	$2.227 \times 10^{-4}$	0.999	$-4.848 \times 10^{-5}$	$7.330 \times 10^{-3}$
0.5500	0.4667	$2.217 \times 10^{-4}$	1.000	$2.093 \times 10^{-4}$	$7.299 \times 10^{-3}$
0.5667	0.4667	$2.224 \times 10^{-4}$	1.000	$3.621 \times 10^{-4}$	$7.317 \times 10^{-3}$
0.5833	0.4667	$2.235 \times 10^{-4}$	0.999	$8.352 \times 10^{-5}$	$7.339 \times 10^{-3}$
0.6000	0.4667	$2.230 \times 10^{-4}$	1.000	$-2.594 \times 10^{-4}$	$7.326 \times 10^{-3}$
0.6167	0.4667	$2.226 \times 10^{-4}$	1.000	$-2.223 \times 10^{-4}$	$7.323 \times 10^{-3}$
0.6333	0.4667	$2.226 \times 10^{-4}$	1.000	$2.136 \times 10^{-4}$	$7.320 \times 10^{-3}$
0.6500	0.4667	$2.239 \times 10^{-4}$	1.000	$-1.414 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.6667	0.4667	$2.219 \times 10^{-4}$	1.000	$-1.954 \times 10^{-4}$	$7.305 \times 10^{-3}$
0.6833	0.4667	$2.232 \times 10^{-4}$	1.000	$-1.191 \times 10^{-4}$	$7.360 \times 10^{-3}$

Table A.1: Flow field variables on symmetry plane, coarse grid (continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7000	0.4667	$2.235 \times 10^{-4}$	1.000	$1.960 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.7167	0.4667	$2.237 \times 10^{-4}$	1.000	$3.120 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.7333	0.4667	$2.244 \times 10^{-4}$	1.000	$2.429 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.7500	0.4667	$2.254 \times 10^{-4}$	1.000	$-2.819 \times 10^{-5}$	$7.403 \times 10^{-3}$
0.7667	0.4667	$2.256 \times 10^{-4}$	1.000	$-1.239 \times 10^{-4}$	$7.428 \times 10^{-3}$
0.7833	0.4667	$2.268 \times 10^{-4}$	1.000	$5.312 \times 10^{-4}$	$7.448 \times 10^{-3}$
0.8000	0.4667	$2.263 \times 10^{-4}$	1.000	$8.561 \times 10^{-5}$	$7.456 \times 10^{-3}$
0.8167	0.4667	$2.273 \times 10^{-4}$	1.000	$-1.055 \times 10^{-4}$	$7.503 \times 10^{-3}$
0.8333	0.4667	$2.275 \times 10^{-4}$	1.000	$-3.624 \times 10^{-4}$	$7.497 \times 10^{-3}$
0.8500	0.4667	$2.272 \times 10^{-4}$	1.000	$4.118 \times 10^{-5}$	$7.487 \times 10^{-3}$
0.8667	0.4667	$2.267 \times 10^{-4}$	1.000	$-4.759 \times 10^{-4}$	$7.476 \times 10^{-3}$
0.8833	0.4667	$2.261 \times 10^{-4}$	1.000	$-2.958 \times 10^{-4}$	$7.475 \times 10^{-3}$
0.9000	0.4667	$2.267 \times 10^{-4}$	1.000	$-3.040 \times 10^{-5}$	$7.487 \times 10^{-3}$
0.9167	0.4667	$2.267 \times 10^{-4}$	1.000	$1.296 \times 10^{-4}$	$7.494 \times 10^{-3}$
0.9333	0.4667	$2.266 \times 10^{-4}$	1.000	$2.380 \times 10^{-4}$	$7.478 \times 10^{-3}$
0.9500	0.4667	$2.268 \times 10^{-4}$	1.000	$1.595 \times 10^{-4}$	$7.493 \times 10^{-3}$
0.9667	0.4667	$2.262 \times 10^{-4}$	1.000	$-3.556 \times 10^{-4}$	$7.470 \times 10^{-3}$
0.9833	0.4667	$2.262 \times 10^{-4}$	1.000	$1.673 \times 10^{-4}$	$7.492 \times 10^{-3}$
1.0000	0.4667	$2.258 \times 10^{-4}$	1.000	$1.694 \times 10^{-4}$	$7.472 \times 10^{-3}$

### A.1.2 Fine Grid Resolution

Given next in Table A.2 are the flow field variables interpolated to the fine grid region shown in Figure A.1. This region has the dimensions  $0.6667 \leq x/L \leq 1.0$  and  $0 \leq z/L \leq 0.3333$ . Regular cell spacing of 0.001 m in each direction was applied, which created an array of  $50 \times 50$  points, each point with a resolution of  $1.0 \times 10^{-6} m^2$ . As discussed previously, the variables  $x/L$ ,  $z/L$ ,  $n/n_o$ ,  $u/V_\infty$ ,  $w/V_\infty$ , and  $nkT/\rho_\infty V_\infty^2$  were interpolated from the x-z symmetry plane of the simulation flow field because they describe the kinematics and thermodynamics of the flow field. Note that the same normalization factors as in Table A.1 were used for Table A.2.

Table A.2: Flow field variables on symmetry plane, fine grid.

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.6667	0.0000	$5.651 \times 10^{-4}$	$-4.079 \times 10^{-2}$	$3.379 \times 10^{-4}$	$1.024 \times 10^{-1}$
0.6733	0.0000	$6.048 \times 10^{-4}$	$-4.506 \times 10^{-2}$	$-3.601 \times 10^{-4}$	$1.108 \times 10^{-1}$
0.6800	0.0000	$6.520 \times 10^{-4}$	$-4.234 \times 10^{-2}$	$3.357 \times 10^{-3}$	$1.215 \times 10^{-1}$
0.6867	0.0000	$6.883 \times 10^{-4}$	$-4.194 \times 10^{-2}$	$2.221 \times 10^{-3}$	$1.321 \times 10^{-1}$
0.6933	0.0000	$7.654 \times 10^{-4}$	$-3.458 \times 10^{-2}$	$1.766 \times 10^{-3}$	$1.454 \times 10^{-1}$
0.7000	0.0000	$8.239 \times 10^{-4}$	$-2.728 \times 10^{-2}$	$1.084 \times 10^{-4}$	$1.578 \times 10^{-1}$
0.7067	0.0000	$8.831 \times 10^{-4}$	$-1.704 \times 10^{-2}$	$2.008 \times 10^{-4}$	$1.667 \times 10^{-1}$
0.7133	0.0000	$9.172 \times 10^{-4}$	$-3.813 \times 10^{-3}$	$-3.011 \times 10^{-4}$	$1.745 \times 10^{-1}$
0.7200	0.0000	$9.466 \times 10^{-4}$	$6.544 \times 10^{-3}$	$6.297 \times 10^{-4}$	$1.767 \times 10^{-1}$
0.7267	0.0000	$9.138 \times 10^{-4}$	$2.363 \times 10^{-2}$	$9.312 \times 10^{-4}$	$1.691 \times 10^{-1}$
0.7333	0.0000	$8.614 \times 10^{-4}$	$3.125 \times 10^{-2}$	$5.436 \times 10^{-4}$	$1.565 \times 10^{-1}$
0.7400	0.0000	$8.010 \times 10^{-4}$	$3.959 \times 10^{-2}$	$1.440 \times 10^{-3}$	$1.453 \times 10^{-1}$
0.7467	0.0000	$7.441 \times 10^{-4}$	$4.260 \times 10^{-2}$	$2.046 \times 10^{-3}$	$1.309 \times 10^{-1}$
0.7533	0.0000	$6.918 \times 10^{-4}$	$4.287 \times 10^{-2}$	$2.867 \times 10^{-3}$	$1.186 \times 10^{-1}$
0.7600	0.0000	$6.523 \times 10^{-4}$	$3.986 \times 10^{-2}$	$2.332 \times 10^{-3}$	$1.114 \times 10^{-1}$
0.7667	0.0000	$6.309 \times 10^{-4}$	$3.570 \times 10^{-2}$	$-4.730 \times 10^{-5}$	$1.073 \times 10^{-1}$
0.7733	0.0000	$6.027 \times 10^{-4}$	$3.050 \times 10^{-2}$	$9.770 \times 10^{-4}$	$1.010 \times 10^{-1}$
0.7800	0.0000	$5.925 \times 10^{-4}$	$3.023 \times 10^{-2}$	$-1.033 \times 10^{-3}$	$9.816 \times 10^{-2}$
0.7867	0.0000	$5.433 \times 10^{-4}$	$3.345 \times 10^{-2}$	$1.991 \times 10^{-3}$	$8.739 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7933	0.0000	$4.950 \times 10^{-4}$	$3.349 \times 10^{-2}$	$7.682 \times 10^{-4}$	$7.803 \times 10^{-2}$
0.8000	0.0000	$3.427 \times 10^{-4}$	$3.410 \times 10^{-2}$	$2.521 \times 10^{-3}$	$5.312 \times 10^{-2}$
0.8067	0.0000	$2.316 \times 10^{-4}$	$3.474 \times 10^{-2}$	$2.654 \times 10^{-3}$	$3.469 \times 10^{-2}$
0.8133	0.0000	$1.187 \times 10^{-4}$	-0.118	$8.042 \times 10^{-3}$	$1.538 \times 10^{-2}$
0.8200	0.0000	$2.221 \times 10^{-3}$	-0.197	0.172	$1.179 \times 10^{-1}$
0.8267	0.0000	$3.197 \times 10^{-3}$	-0.100	0.178	$1.632 \times 10^{-1}$
0.8333	0.0000	$4.055 \times 10^{-3}$	$-9.125 \times 10^{-4}$	0.183	$2.015 \times 10^{-1}$
0.8400	0.0000	$4.957 \times 10^{-3}$	$9.789 \times 10^{-2}$	0.188	$2.387 \times 10^{-1}$
0.8467	0.0000	$5.826 \times 10^{-3}$	0.192	0.192	$2.776 \times 10^{-1}$
0.8533	0.0000	$6.629 \times 10^{-5}$	0.216	$4.870 \times 10^{-3}$	$2.170 \times 10^{-3}$
0.8600	0.0000	$3.541 \times 10^{-5}$	0.180	$9.766 \times 10^{-3}$	$2.888 \times 10^{-3}$
0.8667	0.0000	$2.600 \times 10^{-5}$	0.129	$5.563 \times 10^{-4}$	$2.588 \times 10^{-3}$
0.8733	0.0000	$2.328 \times 10^{-5}$	$9.408 \times 10^{-2}$	$3.920 \times 10^{-3}$	$2.930 \times 10^{-3}$
0.8800	0.0000	$2.824 \times 10^{-5}$	$7.647 \times 10^{-2}$	$3.853 \times 10^{-3}$	$3.980 \times 10^{-3}$
0.8867	0.0000	$3.169 \times 10^{-5}$	$5.492 \times 10^{-2}$	$2.591 \times 10^{-3}$	$4.495 \times 10^{-3}$
0.8933	0.0000	$3.389 \times 10^{-5}$	$4.364 \times 10^{-2}$	$2.243 \times 10^{-3}$	$4.821 \times 10^{-3}$
0.9000	0.0000	$3.830 \times 10^{-5}$	$4.292 \times 10^{-2}$	$-3.004 \times 10^{-3}$	$5.703 \times 10^{-3}$
0.9067	0.0000	$3.904 \times 10^{-5}$	$4.295 \times 10^{-2}$	$-3.450 \times 10^{-3}$	$5.851 \times 10^{-3}$
0.9133	0.0000	$3.889 \times 10^{-5}$	$4.255 \times 10^{-2}$	$-3.790 \times 10^{-3}$	$5.831 \times 10^{-3}$
0.9200	0.0000	$4.791 \times 10^{-5}$	$2.697 \times 10^{-2}$	$5.432 \times 10^{-3}$	$7.375 \times 10^{-3}$
0.9267	0.0000	$4.784 \times 10^{-5}$	$2.691 \times 10^{-2}$	$5.343 \times 10^{-3}$	$7.366 \times 10^{-3}$
0.9333	0.0000	$5.067 \times 10^{-5}$	$3.370 \times 10^{-2}$	$2.370 \times 10^{-3}$	$7.556 \times 10^{-3}$
0.9400	0.0000	$5.092 \times 10^{-5}$	$3.422 \times 10^{-2}$	$2.237 \times 10^{-3}$	$7.583 \times 10^{-3}$
0.9467	0.0000	$5.085 \times 10^{-5}$	$3.429 \times 10^{-2}$	$2.297 \times 10^{-3}$	$7.572 \times 10^{-3}$
0.9533	0.0000	$5.173 \times 10^{-5}$	$3.448 \times 10^{-2}$	$1.074 \times 10^{-3}$	$7.838 \times 10^{-3}$
0.9600	0.0000	$5.270 \times 10^{-5}$	$3.473 \times 10^{-2}$	$-3.754 \times 10^{-4}$	$8.154 \times 10^{-3}$
0.9667	0.0000	$5.173 \times 10^{-5}$	$3.967 \times 10^{-2}$	$-1.692 \times 10^{-3}$	$7.998 \times 10^{-3}$
0.9733	0.0000	$5.129 \times 10^{-5}$	$4.407 \times 10^{-2}$	$-2.810 \times 10^{-3}$	$7.925 \times 10^{-3}$
0.9800	0.0000	$5.109 \times 10^{-5}$	$4.395 \times 10^{-2}$	$-2.631 \times 10^{-3}$	$7.895 \times 10^{-3}$
0.9867	0.0000	$4.694 \times 10^{-5}$	$3.484 \times 10^{-2}$	$-2.096 \times 10^{-3}$	$7.295 \times 10^{-3}$
0.9933	0.0000	$3.904 \times 10^{-5}$	$1.841 \times 10^{-2}$	$-7.226 \times 10^{-4}$	$6.136 \times 10^{-3}$
1.0000	0.0000	$3.868 \times 10^{-5}$	$1.677 \times 10^{-2}$	$-8.950 \times 10^{-4}$	$6.081 \times 10^{-3}$
0.6667	0.0067	$4.551 \times 10^{-4}$	$-9.916 \times 10^{-2}$	$5.558 \times 10^{-3}$	$1.037 \times 10^{-1}$
0.6733	0.0067	$4.693 \times 10^{-4}$	-0.104	$3.310 \times 10^{-3}$	$1.110 \times 10^{-1}$
0.6800	0.0067	$4.948 \times 10^{-4}$	-0.100	$-1.813 \times 10^{-3}$	$1.195 \times 10^{-1}$
0.6867	0.0067	$5.251 \times 10^{-4}$	$-9.239 \times 10^{-2}$	$-8.300 \times 10^{-3}$	$1.306 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6933	0.0067	$5.582 \times 10^{-4}$	$-7.645 \times 10^{-2}$	$-1.285 \times 10^{-2}$	$1.427 \times 10^{-1}$
0.7000	0.0067	$5.969 \times 10^{-4}$	$-5.857 \times 10^{-2}$	$-2.076 \times 10^{-2}$	$1.554 \times 10^{-1}$
0.7067	0.0067	$6.273 \times 10^{-4}$	$-3.542 \times 10^{-2}$	$-2.325 \times 10^{-2}$	$1.651 \times 10^{-1}$
0.7133	0.0067	$6.565 \times 10^{-4}$	$-6.014 \times 10^{-3}$	$-2.858 \times 10^{-2}$	$1.710 \times 10^{-1}$
0.7200	0.0067	$6.740 \times 10^{-4}$	$2.313 \times 10^{-2}$	$-2.847 \times 10^{-2}$	$1.721 \times 10^{-1}$
0.7267	0.0067	$6.701 \times 10^{-4}$	$5.087 \times 10^{-2}$	$-2.159 \times 10^{-2}$	$1.647 \times 10^{-1}$
0.7333	0.0067	$6.533 \times 10^{-4}$	$7.352 \times 10^{-2}$	$-1.399 \times 10^{-2}$	$1.520 \times 10^{-1}$
0.7400	0.0067	$6.267 \times 10^{-4}$	$8.933 \times 10^{-2}$	$-7.315 \times 10^{-3}$	$1.395 \times 10^{-1}$
0.7467	0.0067	$5.956 \times 10^{-4}$	0.100	$1.107 \times 10^{-3}$	$1.257 \times 10^{-1}$
0.7533	0.0067	$5.770 \times 10^{-4}$	$9.908 \times 10^{-2}$	$8.389 \times 10^{-3}$	$1.169 \times 10^{-1}$
0.7600	0.0067	$5.559 \times 10^{-4}$	$9.155 \times 10^{-2}$	$9.498 \times 10^{-3}$	$1.100 \times 10^{-1}$
0.7667	0.0067	$5.504 \times 10^{-4}$	$8.172 \times 10^{-2}$	$7.435 \times 10^{-3}$	$1.056 \times 10^{-1}$
0.7733	0.0067	$5.424 \times 10^{-4}$	$7.289 \times 10^{-2}$	$4.877 \times 10^{-3}$	$1.013 \times 10^{-1}$
0.7800	0.0067	$5.424 \times 10^{-4}$	$6.457 \times 10^{-2}$	$1.699 \times 10^{-3}$	$9.947 \times 10^{-2}$
0.7867	0.0067	$5.322 \times 10^{-4}$	$5.446 \times 10^{-2}$	$8.918 \times 10^{-4}$	$9.331 \times 10^{-2}$
0.7933	0.0067	$4.871 \times 10^{-4}$	$2.891 \times 10^{-2}$	$1.428 \times 10^{-2}$	$8.135 \times 10^{-2}$
0.8000	0.0067	$4.363 \times 10^{-4}$	$-3.888 \times 10^{-2}$	$4.084 \times 10^{-2}$	$7.019 \times 10^{-2}$
0.8067	0.0067	$8.375 \times 10^{-4}$	-0.180	$9.907 \times 10^{-2}$	$8.174 \times 10^{-2}$
0.8133	0.0067	$4.958 \times 10^{-3}$	-0.236	0.180	$1.790 \times 10^{-1}$
0.8200	0.0067	$8.607 \times 10^{-3}$	-0.184	0.213	$2.923 \times 10^{-1}$
0.8267	0.0067	$6.493 \times 10^{-3}$	-0.101	0.200	$2.441 \times 10^{-1}$
0.8333	0.0067	$9.487 \times 10^{-3}$	$-1.122 \times 10^{-2}$	0.215	$3.402 \times 10^{-1}$
0.8400	0.0067	$8.269 \times 10^{-3}$	$8.680 \times 10^{-2}$	0.209	$3.202 \times 10^{-1}$
0.8467	0.0067	$9.462 \times 10^{-3}$	0.185	0.215	$3.145 \times 10^{-1}$
0.8533	0.0067	$4.340 \times 10^{-3}$	0.243	0.179	$1.328 \times 10^{-1}$
0.8600	0.0067	$5.263 \times 10^{-4}$	0.274	0.112	$1.618 \times 10^{-2}$
0.8667	0.0067	$1.078 \times 10^{-4}$	0.268	$6.568 \times 10^{-2}$	$5.084 \times 10^{-3}$
0.8733	0.0067	$4.967 \times 10^{-5}$	0.223	$3.927 \times 10^{-2}$	$4.146 \times 10^{-3}$
0.8800	0.0067	$3.908 \times 10^{-5}$	0.175	$2.915 \times 10^{-2}$	$4.276 \times 10^{-3}$
0.8867	0.0067	$3.831 \times 10^{-5}$	0.129	$2.632 \times 10^{-2}$	$4.946 \times 10^{-3}$
0.8933	0.0067	$3.839 \times 10^{-5}$	$9.925 \times 10^{-2}$	$2.273 \times 10^{-2}$	$5.423 \times 10^{-3}$
0.9000	0.0067	$4.168 \times 10^{-5}$	$7.780 \times 10^{-2}$	$2.071 \times 10^{-2}$	$6.005 \times 10^{-3}$
0.9067	0.0067	$4.444 \times 10^{-5}$	$6.491 \times 10^{-2}$	$1.794 \times 10^{-2}$	$6.540 \times 10^{-3}$
0.9133	0.0067	$4.592 \times 10^{-5}$	$5.644 \times 10^{-2}$	$1.526 \times 10^{-2}$	$6.916 \times 10^{-3}$
0.9200	0.0067	$4.978 \times 10^{-5}$	$5.464 \times 10^{-2}$	$1.636 \times 10^{-2}$	$7.480 \times 10^{-3}$
0.9267	0.0067	$5.089 \times 10^{-5}$	$5.252 \times 10^{-2}$	$1.509 \times 10^{-2}$	$7.668 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9333	0.0067	$5.232 \times 10^{-5}$	$5.411 \times 10^{-2}$	$1.460 \times 10^{-2}$	$7.804 \times 10^{-3}$
0.9400	0.0067	$5.306 \times 10^{-5}$	$5.328 \times 10^{-2}$	$1.345 \times 10^{-2}$	$7.950 \times 10^{-3}$
0.9467	0.0067	$5.332 \times 10^{-5}$	$5.320 \times 10^{-2}$	$1.278 \times 10^{-2}$	$7.984 \times 10^{-3}$
0.9533	0.0067	$5.370 \times 10^{-5}$	$5.364 \times 10^{-2}$	$1.148 \times 10^{-2}$	$8.099 \times 10^{-3}$
0.9600	0.0067	$5.411 \times 10^{-5}$	$5.404 \times 10^{-2}$	$9.632 \times 10^{-3}$	$8.268 \times 10^{-3}$
0.9667	0.0067	$5.381 \times 10^{-5}$	$5.685 \times 10^{-2}$	$8.713 \times 10^{-3}$	$8.219 \times 10^{-3}$
0.9733	0.0067	$5.363 \times 10^{-5}$	$5.950 \times 10^{-2}$	$7.580 \times 10^{-3}$	$8.197 \times 10^{-3}$
0.9800	0.0067	$5.365 \times 10^{-5}$	$6.041 \times 10^{-2}$	$6.814 \times 10^{-3}$	$8.215 \times 10^{-3}$
0.9867	0.0067	$5.092 \times 10^{-5}$	$5.835 \times 10^{-2}$	$5.501 \times 10^{-3}$	$7.847 \times 10^{-3}$
0.9933	0.0067	$4.775 \times 10^{-5}$	$5.528 \times 10^{-2}$	$3.173 \times 10^{-3}$	$7.434 \times 10^{-3}$
1.0000	0.0067	$4.669 \times 10^{-5}$	$5.611 \times 10^{-2}$	$1.331 \times 10^{-3}$	$7.293 \times 10^{-3}$
0.6667	0.0133	$3.634 \times 10^{-4}$	-0.129	$1.103 \times 10^{-2}$	$1.001 \times 10^{-1}$
0.6733	0.0133	$3.714 \times 10^{-4}$	-0.132	$1.015 \times 10^{-3}$	$1.066 \times 10^{-1}$
0.6800	0.0133	$3.915 \times 10^{-4}$	-0.126	$-1.236 \times 10^{-2}$	$1.165 \times 10^{-1}$
0.6867	0.0133	$4.069 \times 10^{-4}$	-0.114	$-2.571 \times 10^{-2}$	$1.252 \times 10^{-1}$
0.6933	0.0133	$4.287 \times 10^{-4}$	$-9.663 \times 10^{-2}$	$-4.023 \times 10^{-2}$	$1.350 \times 10^{-1}$
0.7000	0.0133	$4.553 \times 10^{-4}$	$-6.683 \times 10^{-2}$	$-5.401 \times 10^{-2}$	$1.459 \times 10^{-1}$
0.7067	0.0133	$4.873 \times 10^{-4}$	$-3.596 \times 10^{-2}$	$-7.265 \times 10^{-2}$	$1.564 \times 10^{-1}$
0.7133	0.0133	$5.147 \times 10^{-4}$	$-8.327 \times 10^{-4}$	$-7.708 \times 10^{-2}$	$1.621 \times 10^{-1}$
0.7200	0.0133	$5.334 \times 10^{-4}$	$3.650 \times 10^{-2}$	$-7.610 \times 10^{-2}$	$1.619 \times 10^{-1}$
0.7267	0.0133	$5.341 \times 10^{-4}$	$6.748 \times 10^{-2}$	$-6.082 \times 10^{-2}$	$1.540 \times 10^{-1}$
0.7333	0.0133	$5.292 \times 10^{-4}$	$9.630 \times 10^{-2}$	$-4.160 \times 10^{-2}$	$1.438 \times 10^{-1}$
0.7400	0.0133	$5.164 \times 10^{-4}$	0.116	$-2.027 \times 10^{-2}$	$1.308 \times 10^{-1}$
0.7467	0.0133	$5.001 \times 10^{-4}$	0.129	$-1.403 \times 10^{-3}$	$1.195 \times 10^{-1}$
0.7533	0.0133	$4.896 \times 10^{-4}$	0.128	$1.487 \times 10^{-2}$	$1.112 \times 10^{-1}$
0.7600	0.0133	$4.904 \times 10^{-4}$	0.119	$2.101 \times 10^{-2}$	$1.070 \times 10^{-1}$
0.7667	0.0133	$4.998 \times 10^{-4}$	0.103	$1.883 \times 10^{-2}$	$1.061 \times 10^{-1}$
0.7733	0.0133	$5.117 \times 10^{-4}$	$8.381 \times 10^{-2}$	$1.358 \times 10^{-2}$	$1.054 \times 10^{-1}$
0.7800	0.0133	$5.290 \times 10^{-4}$	$5.715 \times 10^{-2}$	$1.286 \times 10^{-2}$	$1.039 \times 10^{-1}$
0.7867	0.0133	$5.566 \times 10^{-4}$	$9.681 \times 10^{-3}$	$2.834 \times 10^{-2}$	$1.012 \times 10^{-1}$
0.7933	0.0133	$6.335 \times 10^{-4}$	$-8.345 \times 10^{-2}$	$7.086 \times 10^{-2}$	$9.690 \times 10^{-2}$
0.8000	0.0133	$1.222 \times 10^{-3}$	-0.204	0.134	$9.911 \times 10^{-2}$
0.8067	0.0133	$3.900 \times 10^{-3}$	-0.247	0.185	$1.105 \times 10^{-1}$
0.8133	0.0133	$8.050 \times 10^{-3}$	-0.224	0.214	$1.930 \times 10^{-1}$
0.8200	0.0133	$6.954 \times 10^{-3}$	-0.168	0.210	$1.893 \times 10^{-1}$
0.8267	0.0133	$8.911 \times 10^{-3}$	$-8.667 \times 10^{-2}$	0.221	$2.558 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8333	0.0133	$7.448 \times 10^{-3}$	$4.983 \times 10^{-3}$	0.217	$2.139 \times 10^{-1}$
0.8400	0.0133	$8.383 \times 10^{-3}$	$8.383 \times 10^{-2}$	0.218	$2.343 \times 10^{-1}$
0.8467	0.0133	$7.304 \times 10^{-3}$	0.166	0.212	$1.942 \times 10^{-1}$
0.8533	0.0133	$6.739 \times 10^{-3}$	0.230	0.206	$1.600 \times 10^{-1}$
0.8600	0.0133	$3.648 \times 10^{-3}$	0.257	0.186	$7.750 \times 10^{-2}$
0.8667	0.0133	$9.800 \times 10^{-4}$	0.281	0.147	$2.034 \times 10^{-2}$
0.8733	0.0133	$2.612 \times 10^{-4}$	0.290	0.110	$7.096 \times 10^{-3}$
0.8800	0.0133	$1.000 \times 10^{-4}$	0.271	$8.298 \times 10^{-2}$	$4.914 \times 10^{-3}$
0.8867	0.0133	$6.529 \times 10^{-5}$	0.230	$6.569 \times 10^{-2}$	$5.410 \times 10^{-3}$
0.8933	0.0133	$5.259 \times 10^{-5}$	0.178	$5.533 \times 10^{-2}$	$5.990 \times 10^{-3}$
0.9000	0.0133	$5.131 \times 10^{-5}$	0.139	$4.872 \times 10^{-2}$	$6.582 \times 10^{-3}$
0.9067	0.0133	$5.162 \times 10^{-5}$	0.111	$4.203 \times 10^{-2}$	$7.019 \times 10^{-3}$
0.9133	0.0133	$5.218 \times 10^{-5}$	$9.423 \times 10^{-2}$	$3.637 \times 10^{-2}$	$7.368 \times 10^{-3}$
0.9200	0.0133	$5.332 \times 10^{-5}$	$8.557 \times 10^{-2}$	$3.343 \times 10^{-2}$	$7.672 \times 10^{-3}$
0.9267	0.0133	$5.399 \times 10^{-5}$	$7.955 \times 10^{-2}$	$3.018 \times 10^{-2}$	$7.866 \times 10^{-3}$
0.9333	0.0133	$5.448 \times 10^{-5}$	$7.650 \times 10^{-2}$	$2.811 \times 10^{-2}$	$7.975 \times 10^{-3}$
0.9400	0.0133	$5.518 \times 10^{-5}$	$7.381 \times 10^{-2}$	$2.621 \times 10^{-2}$	$8.167 \times 10^{-3}$
0.9467	0.0133	$5.581 \times 10^{-5}$	$7.290 \times 10^{-2}$	$2.476 \times 10^{-2}$	$8.281 \times 10^{-3}$
0.9533	0.0133	$5.602 \times 10^{-5}$	$7.264 \times 10^{-2}$	$2.348 \times 10^{-2}$	$8.330 \times 10^{-3}$
0.9600	0.0133	$5.599 \times 10^{-5}$	$7.306 \times 10^{-2}$	$2.126 \times 10^{-2}$	$8.413 \times 10^{-3}$
0.9667	0.0133	$5.598 \times 10^{-5}$	$7.393 \times 10^{-2}$	$2.014 \times 10^{-2}$	$8.417 \times 10^{-3}$
0.9733	0.0133	$5.593 \times 10^{-5}$	$7.524 \times 10^{-2}$	$1.864 \times 10^{-2}$	$8.431 \times 10^{-3}$
0.9800	0.0133	$5.557 \times 10^{-5}$	$7.690 \times 10^{-2}$	$1.690 \times 10^{-2}$	$8.404 \times 10^{-3}$
0.9867	0.0133	$5.420 \times 10^{-5}$	$7.856 \times 10^{-2}$	$1.470 \times 10^{-2}$	$8.242 \times 10^{-3}$
0.9933	0.0133	$5.311 \times 10^{-5}$	$8.223 \times 10^{-2}$	$1.170 \times 10^{-2}$	$8.146 \times 10^{-3}$
1.0000	0.0133	$5.192 \times 10^{-5}$	$8.386 \times 10^{-2}$	$8.385 \times 10^{-3}$	$8.008 \times 10^{-3}$
0.6667	0.0200	$3.082 \times 10^{-4}$	-0.123	$7.153 \times 10^{-3}$	$9.699 \times 10^{-2}$
0.6733	0.0200	$3.122 \times 10^{-4}$	-0.124	$-6.561 \times 10^{-3}$	$1.014 \times 10^{-1}$
0.6800	0.0200	$3.195 \times 10^{-4}$	-0.116	$-2.825 \times 10^{-2}$	$1.076 \times 10^{-1}$
0.6867	0.0200	$3.304 \times 10^{-4}$	$-9.985 \times 10^{-2}$	$-5.475 \times 10^{-2}$	$1.142 \times 10^{-1}$
0.6933	0.0200	$3.498 \times 10^{-4}$	$-8.467 \times 10^{-2}$	$-8.298 \times 10^{-2}$	$1.241 \times 10^{-1}$
0.7000	0.0200	$3.883 \times 10^{-4}$	$-5.442 \times 10^{-2}$	-0.107	$1.359 \times 10^{-1}$
0.7067	0.0200	$4.222 \times 10^{-4}$	$-2.499 \times 10^{-2}$	-0.128	$1.443 \times 10^{-1}$
0.7133	0.0200	$4.529 \times 10^{-4}$	$6.754 \times 10^{-3}$	-0.136	$1.483 \times 10^{-1}$
0.7200	0.0200	$4.805 \times 10^{-4}$	$3.841 \times 10^{-2}$	-0.128	$1.485 \times 10^{-1}$
0.7267	0.0200	$4.806 \times 10^{-4}$	$7.112 \times 10^{-2}$	-0.105	$1.401 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7333	0.0200	$4.716 \times 10^{-4}$	$9.576 \times 10^{-2}$	$-7.402 \times 10^{-2}$	$1.291 \times 10^{-1}$
0.7400	0.0200	$4.486 \times 10^{-4}$	0.116	$-4.254 \times 10^{-2}$	$1.168 \times 10^{-1}$
0.7467	0.0200	$4.272 \times 10^{-4}$	0.128	$-6.521 \times 10^{-3}$	$1.064 \times 10^{-1}$
0.7533	0.0200	$4.297 \times 10^{-4}$	0.123	$1.897 \times 10^{-2}$	$1.037 \times 10^{-1}$
0.7600	0.0200	$4.417 \times 10^{-4}$	0.113	$3.138 \times 10^{-2}$	$1.023 \times 10^{-1}$
0.7667	0.0200	$4.717 \times 10^{-4}$	$8.911 \times 10^{-2}$	$3.367 \times 10^{-2}$	$1.062 \times 10^{-1}$
0.7733	0.0200	$5.060 \times 10^{-4}$	$5.575 \times 10^{-2}$	$3.127 \times 10^{-2}$	$1.091 \times 10^{-1}$
0.7800	0.0200	$5.709 \times 10^{-4}$	$-4.805 \times 10^{-3}$	$4.670 \times 10^{-2}$	$1.121 \times 10^{-1}$
0.7867	0.0200	$7.306 \times 10^{-4}$	$-9.569 \times 10^{-2}$	$8.936 \times 10^{-2}$	$1.142 \times 10^{-1}$
0.7933	0.0200	$1.424 \times 10^{-3}$	-0.198	0.156	$1.119 \times 10^{-1}$
0.8000	0.0200	$3.357 \times 10^{-3}$	-0.243	0.196	$8.882 \times 10^{-2}$
0.8067	0.0200	$5.937 \times 10^{-3}$	-0.238	0.218	$1.044 \times 10^{-1}$
0.8133	0.0200	$6.459 \times 10^{-3}$	-0.194	0.222	$1.188 \times 10^{-1}$
0.8200	0.0200	$7.133 \times 10^{-3}$	-0.142	0.224	$1.516 \times 10^{-1}$
0.8267	0.0200	$6.624 \times 10^{-3}$	$-7.384 \times 10^{-2}$	0.223	$1.421 \times 10^{-1}$
0.8333	0.0200	$6.958 \times 10^{-3}$	$-2.278 \times 10^{-3}$	0.224	$1.641 \times 10^{-1}$
0.8400	0.0200	$7.219 \times 10^{-3}$	$7.728 \times 10^{-2}$	0.226	$1.559 \times 10^{-1}$
0.8467	0.0200	$6.326 \times 10^{-3}$	0.144	0.220	$1.301 \times 10^{-1}$
0.8533	0.0200	$6.352 \times 10^{-3}$	0.196	0.221	$1.136 \times 10^{-1}$
0.8600	0.0200	$5.744 \times 10^{-3}$	0.242	0.215	$9.516 \times 10^{-2}$
0.8667	0.0200	$3.087 \times 10^{-3}$	0.260	0.193	$5.129 \times 10^{-2}$
0.8733	0.0200	$1.124 \times 10^{-3}$	0.279	0.166	$1.849 \times 10^{-2}$
0.8800	0.0200	$4.094 \times 10^{-4}$	0.290	0.139	$7.820 \times 10^{-3}$
0.8867	0.0200	$1.681 \times 10^{-4}$	0.288	0.115	$5.077 \times 10^{-3}$
0.8933	0.0200	$9.905 \times 10^{-5}$	0.258	$9.564 \times 10^{-2}$	$5.778 \times 10^{-3}$
0.9000	0.0200	$7.026 \times 10^{-5}$	0.215	$8.395 \times 10^{-2}$	$6.460 \times 10^{-3}$
0.9067	0.0200	$6.166 \times 10^{-5}$	0.171	$7.207 \times 10^{-2}$	$7.037 \times 10^{-3}$
0.9133	0.0200	$5.769 \times 10^{-5}$	0.139	$6.212 \times 10^{-2}$	$7.391 \times 10^{-3}$
0.9200	0.0200	$5.803 \times 10^{-5}$	0.119	$5.650 \times 10^{-2}$	$7.807 \times 10^{-3}$
0.9267	0.0200	$5.669 \times 10^{-5}$	0.107	$4.857 \times 10^{-2}$	$7.903 \times 10^{-3}$
0.9333	0.0200	$5.703 \times 10^{-5}$	$9.983 \times 10^{-2}$	$4.405 \times 10^{-2}$	$8.071 \times 10^{-3}$
0.9400	0.0200	$5.759 \times 10^{-5}$	$9.555 \times 10^{-2}$	$4.086 \times 10^{-2}$	$8.253 \times 10^{-3}$
0.9467	0.0200	$5.828 \times 10^{-5}$	$9.348 \times 10^{-2}$	$3.885 \times 10^{-2}$	$8.389 \times 10^{-3}$
0.9533	0.0200	$5.829 \times 10^{-5}$	$9.232 \times 10^{-2}$	$3.672 \times 10^{-2}$	$8.475 \times 10^{-3}$
0.9600	0.0200	$5.818 \times 10^{-5}$	$9.135 \times 10^{-2}$	$3.445 \times 10^{-2}$	$8.542 \times 10^{-3}$
0.9667	0.0200	$5.810 \times 10^{-5}$	$9.154 \times 10^{-2}$	$3.248 \times 10^{-2}$	$8.557 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9733	0.0200	$5.784 \times 10^{-5}$	$9.134 \times 10^{-2}$	$2.997 \times 10^{-2}$	$8.559 \times 10^{-3}$
0.9800	0.0200	$5.729 \times 10^{-5}$	$9.279 \times 10^{-2}$	$2.753 \times 10^{-2}$	$8.515 \times 10^{-3}$
0.9867	0.0200	$5.635 \times 10^{-5}$	$9.492 \times 10^{-2}$	$2.520 \times 10^{-2}$	$8.423 \times 10^{-3}$
0.9933	0.0200	$5.547 \times 10^{-5}$	$9.828 \times 10^{-2}$	$2.188 \times 10^{-2}$	$8.352 \times 10^{-3}$
1.0000	0.0200	$5.458 \times 10^{-5}$	0.100	$1.824 \times 10^{-2}$	$8.265 \times 10^{-3}$
0.6667	0.0267	$2.750 \times 10^{-4}$	$-9.852 \times 10^{-2}$	$9.317 \times 10^{-4}$	$9.278 \times 10^{-2}$
0.6733	0.0267	$2.768 \times 10^{-4}$	$-9.542 \times 10^{-2}$	$-2.088 \times 10^{-2}$	$9.603 \times 10^{-2}$
0.6800	0.0267	$2.860 \times 10^{-4}$	$-9.054 \times 10^{-2}$	$-4.809 \times 10^{-2}$	$1.020 \times 10^{-1}$
0.6867	0.0267	$2.983 \times 10^{-4}$	$-8.412 \times 10^{-2}$	$-8.188 \times 10^{-2}$	$1.082 \times 10^{-1}$
0.6933	0.0267	$3.171 \times 10^{-4}$	$-6.689 \times 10^{-2}$	-0.118	$1.159 \times 10^{-1}$
0.7000	0.0267	$3.452 \times 10^{-4}$	$-3.798 \times 10^{-2}$	-0.156	$1.225 \times 10^{-1}$
0.7067	0.0267	$3.805 \times 10^{-4}$	$-1.106 \times 10^{-2}$	-0.180	$1.291 \times 10^{-1}$
0.7133	0.0267	$4.230 \times 10^{-4}$	$1.492 \times 10^{-2}$	-0.189	$1.328 \times 10^{-1}$
0.7200	0.0267	$4.523 \times 10^{-4}$	$3.995 \times 10^{-2}$	-0.173	$1.319 \times 10^{-1}$
0.7267	0.0267	$4.560 \times 10^{-4}$	$6.382 \times 10^{-2}$	-0.143	$1.247 \times 10^{-1}$
0.7333	0.0267	$4.437 \times 10^{-4}$	$8.399 \times 10^{-2}$	-0.101	$1.148 \times 10^{-1}$
0.7400	0.0267	$4.189 \times 10^{-4}$	0.104	$-5.512 \times 10^{-2}$	$1.057 \times 10^{-1}$
0.7467	0.0267	$3.988 \times 10^{-4}$	0.112	$-1.182 \times 10^{-2}$	$9.735 \times 10^{-2}$
0.7533	0.0267	$4.007 \times 10^{-4}$	0.101	$2.416 \times 10^{-2}$	$9.634 \times 10^{-2}$
0.7600	0.0267	$4.161 \times 10^{-4}$	$7.786 \times 10^{-2}$	$4.617 \times 10^{-2}$	$9.886 \times 10^{-2}$
0.7667	0.0267	$4.673 \times 10^{-4}$	$3.957 \times 10^{-2}$	$5.471 \times 10^{-2}$	$1.063 \times 10^{-1}$
0.7733	0.0267	$5.615 \times 10^{-4}$	$-1.583 \times 10^{-2}$	$6.681 \times 10^{-2}$	$1.157 \times 10^{-1}$
0.7800	0.0267	$7.775 \times 10^{-4}$	$-9.793 \times 10^{-2}$	0.105	$1.245 \times 10^{-1}$
0.7867	0.0267	$1.441 \times 10^{-3}$	-0.185	0.165	$1.218 \times 10^{-1}$
0.7933	0.0267	$2.883 \times 10^{-3}$	-0.231	0.203	$8.842 \times 10^{-2}$
0.8000	0.0267	$4.799 \times 10^{-3}$	-0.237	0.221	$7.498 \times 10^{-2}$
0.8067	0.0267	$5.879 \times 10^{-3}$	-0.216	0.234	$7.956 \times 10^{-2}$
0.8133	0.0267	$6.082 \times 10^{-3}$	-0.168	0.232	$9.469 \times 10^{-2}$
0.8200	0.0267	$6.097 \times 10^{-3}$	-0.118	0.232	$1.035 \times 10^{-1}$
0.8267	0.0267	$6.413 \times 10^{-3}$	$-6.311 \times 10^{-2}$	0.233	$1.171 \times 10^{-1}$
0.8333	0.0267	$6.203 \times 10^{-3}$	$8.122 \times 10^{-5}$	0.231	$1.194 \times 10^{-1}$
0.8400	0.0267	$6.002 \times 10^{-3}$	$6.413 \times 10^{-2}$	0.230	$1.073 \times 10^{-1}$
0.8467	0.0267	$6.263 \times 10^{-3}$	0.122	0.233	$1.056 \times 10^{-1}$
0.8533	0.0267	$5.935 \times 10^{-3}$	0.171	0.231	$9.094 \times 10^{-2}$
0.8600	0.0267	$5.726 \times 10^{-3}$	0.220	0.232	$7.610 \times 10^{-2}$
0.8667	0.0267	$4.549 \times 10^{-3}$	0.243	0.219	$6.243 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8733	0.0267	$2.529 \times 10^{-3}$	0.260	0.199	$3.493 \times 10^{-2}$
0.8800	0.0267	$1.213 \times 10^{-3}$	0.276	0.178	$1.666 \times 10^{-2}$
0.8867	0.0267	$5.398 \times 10^{-4}$	0.288	0.157	$8.175 \times 10^{-3}$
0.8933	0.0267	$2.582 \times 10^{-4}$	0.288	0.138	$5.898 \times 10^{-3}$
0.9000	0.0267	$1.411 \times 10^{-4}$	0.273	0.120	$5.969 \times 10^{-3}$
0.9067	0.0267	$9.761 \times 10^{-5}$	0.240	0.106	$6.736 \times 10^{-3}$
0.9133	0.0267	$7.673 \times 10^{-5}$	0.200	$9.349 \times 10^{-2}$	$7.376 \times 10^{-3}$
0.9200	0.0267	$6.952 \times 10^{-5}$	0.165	$8.234 \times 10^{-2}$	$7.857 \times 10^{-3}$
0.9267	0.0267	$6.457 \times 10^{-5}$	0.143	$7.168 \times 10^{-2}$	$7.993 \times 10^{-3}$
0.9333	0.0267	$6.280 \times 10^{-5}$	0.130	$6.446 \times 10^{-2}$	$8.117 \times 10^{-3}$
0.9400	0.0267	$6.157 \times 10^{-5}$	0.120	$5.802 \times 10^{-2}$	$8.298 \times 10^{-3}$
0.9467	0.0267	$6.065 \times 10^{-5}$	0.112	$5.382 \times 10^{-2}$	$8.370 \times 10^{-3}$
0.9533	0.0267	$6.042 \times 10^{-5}$	0.110	$5.137 \times 10^{-2}$	$8.454 \times 10^{-3}$
0.9600	0.0267	$6.043 \times 10^{-5}$	0.109	$4.836 \times 10^{-2}$	$8.615 \times 10^{-3}$
0.9667	0.0267	$6.010 \times 10^{-5}$	0.107	$4.548 \times 10^{-2}$	$8.607 \times 10^{-3}$
0.9733	0.0267	$5.968 \times 10^{-5}$	0.107	$4.226 \times 10^{-2}$	$8.607 \times 10^{-3}$
0.9800	0.0267	$5.909 \times 10^{-5}$	0.107	$3.884 \times 10^{-2}$	$8.595 \times 10^{-3}$
0.9867	0.0267	$5.805 \times 10^{-5}$	0.109	$3.626 \times 10^{-2}$	$8.485 \times 10^{-3}$
0.9933	0.0267	$5.709 \times 10^{-5}$	0.111	$3.323 \times 10^{-2}$	$8.403 \times 10^{-3}$
1.0000	0.0267	$5.630 \times 10^{-5}$	0.113	$2.961 \times 10^{-2}$	$8.341 \times 10^{-3}$
0.6667	0.0333	$2.570 \times 10^{-4}$	$-5.601 \times 10^{-2}$	$-8.112 \times 10^{-3}$	$8.987 \times 10^{-2}$
0.6733	0.0333	$2.574 \times 10^{-4}$	$-5.641 \times 10^{-2}$	$-3.452 \times 10^{-2}$	$9.289 \times 10^{-2}$
0.6800	0.0333	$2.609 \times 10^{-4}$	$-5.458 \times 10^{-2}$	$-6.990 \times 10^{-2}$	$9.623 \times 10^{-2}$
0.6867	0.0333	$2.686 \times 10^{-4}$	$-4.921 \times 10^{-2}$	-0.113	$9.985 \times 10^{-2}$
0.6933	0.0333	$2.864 \times 10^{-4}$	$-3.460 \times 10^{-2}$	-0.157	$1.049 \times 10^{-1}$
0.7000	0.0333	$3.123 \times 10^{-4}$	$-1.411 \times 10^{-2}$	-0.203	$1.100 \times 10^{-1}$
0.7067	0.0333	$3.441 \times 10^{-4}$	$1.822 \times 10^{-3}$	-0.232	$1.114 \times 10^{-1}$
0.7133	0.0333	$3.917 \times 10^{-4}$	$1.898 \times 10^{-2}$	-0.238	$1.140 \times 10^{-1}$
0.7200	0.0333	$4.242 \times 10^{-4}$	$3.532 \times 10^{-2}$	-0.214	$1.129 \times 10^{-1}$
0.7267	0.0333	$4.303 \times 10^{-4}$	$5.366 \times 10^{-2}$	-0.176	$1.067 \times 10^{-1}$
0.7333	0.0333	$4.149 \times 10^{-4}$	$6.670 \times 10^{-2}$	-0.128	$9.915 \times 10^{-2}$
0.7400	0.0333	$3.837 \times 10^{-4}$	$7.837 \times 10^{-2}$	$-6.875 \times 10^{-2}$	$9.192 \times 10^{-2}$
0.7467	0.0333	$3.663 \times 10^{-4}$	$7.727 \times 10^{-2}$	$-1.255 \times 10^{-2}$	$8.681 \times 10^{-2}$
0.7533	0.0333	$3.661 \times 10^{-4}$	$5.794 \times 10^{-2}$	$3.367 \times 10^{-2}$	$8.638 \times 10^{-2}$
0.7600	0.0333	$4.039 \times 10^{-4}$	$2.313 \times 10^{-2}$	$6.516 \times 10^{-2}$	$9.338 \times 10^{-2}$
0.7667	0.0333	$4.933 \times 10^{-4}$	$-2.869 \times 10^{-2}$	$8.940 \times 10^{-2}$	$1.030 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7733	0.0333	$7.111 \times 10^{-4}$	$-9.980 \times 10^{-2}$	0.119	$1.178 \times 10^{-1}$
0.7800	0.0333	$1.351 \times 10^{-3}$	-0.171	0.172	$1.267 \times 10^{-1}$
0.7867	0.0333	$2.572 \times 10^{-3}$	-0.217	0.210	$9.418 \times 10^{-2}$
0.7933	0.0333	$3.822 \times 10^{-3}$	-0.231	0.225	$6.277 \times 10^{-2}$
0.8000	0.0333	$5.268 \times 10^{-3}$	-0.225	0.237	$6.543 \times 10^{-2}$
0.8067	0.0333	$5.455 \times 10^{-3}$	-0.194	0.243	$6.844 \times 10^{-2}$
0.8133	0.0333	$5.562 \times 10^{-3}$	-0.146	0.243	$7.575 \times 10^{-2}$
0.8200	0.0333	$5.666 \times 10^{-3}$	$-9.270 \times 10^{-2}$	0.241	$8.057 \times 10^{-2}$
0.8267	0.0333	$5.757 \times 10^{-3}$	$-5.274 \times 10^{-2}$	0.241	$8.893 \times 10^{-2}$
0.8333	0.0333	$5.777 \times 10^{-3}$	$1.072 \times 10^{-4}$	0.242	$8.841 \times 10^{-2}$
0.8400	0.0333	$5.711 \times 10^{-3}$	$5.030 \times 10^{-2}$	0.243	$8.767 \times 10^{-2}$
0.8467	0.0333	$5.533 \times 10^{-3}$	$9.285 \times 10^{-2}$	0.239	$8.026 \times 10^{-2}$
0.8533	0.0333	$5.666 \times 10^{-3}$	0.147	0.244	$7.565 \times 10^{-2}$
0.8600	0.0333	$5.450 \times 10^{-3}$	0.195	0.242	$6.771 \times 10^{-2}$
0.8667	0.0333	$5.073 \times 10^{-3}$	0.228	0.237	$6.083 \times 10^{-2}$
0.8733	0.0333	$3.482 \times 10^{-3}$	0.244	0.221	$4.153 \times 10^{-2}$
0.8800	0.0333	$2.122 \times 10^{-3}$	0.260	0.204	$2.517 \times 10^{-2}$
0.8867	0.0333	$1.173 \times 10^{-3}$	0.274	0.186	$1.394 \times 10^{-2}$
0.8933	0.0333	$6.129 \times 10^{-4}$	0.284	0.169	$7.943 \times 10^{-3}$
0.9000	0.0333	$3.260 \times 10^{-4}$	0.287	0.154	$5.810 \times 10^{-3}$
0.9067	0.0333	$1.845 \times 10^{-4}$	0.278	0.139	$5.815 \times 10^{-3}$
0.9133	0.0333	$1.220 \times 10^{-4}$	0.252	0.126	$6.881 \times 10^{-3}$
0.9200	0.0333	$9.430 \times 10^{-5}$	0.215	0.112	$7.702 \times 10^{-3}$
0.9267	0.0333	$7.762 \times 10^{-5}$	0.184	$9.798 \times 10^{-2}$	$7.733 \times 10^{-3}$
0.9333	0.0333	$6.980 \times 10^{-5}$	0.162	$8.732 \times 10^{-2}$	$7.953 \times 10^{-3}$
0.9400	0.0333	$6.676 \times 10^{-5}$	0.147	$7.923 \times 10^{-2}$	$8.087 \times 10^{-3}$
0.9467	0.0333	$6.279 \times 10^{-5}$	0.132	$7.135 \times 10^{-2}$	$8.104 \times 10^{-3}$
0.9533	0.0333	$6.280 \times 10^{-5}$	0.127	$6.773 \times 10^{-2}$	$8.282 \times 10^{-3}$
0.9600	0.0333	$6.222 \times 10^{-5}$	0.124	$6.378 \times 10^{-2}$	$8.394 \times 10^{-3}$
0.9667	0.0333	$6.214 \times 10^{-5}$	0.122	$5.996 \times 10^{-2}$	$8.505 \times 10^{-3}$
0.9733	0.0333	$6.145 \times 10^{-5}$	0.120	$5.598 \times 10^{-2}$	$8.540 \times 10^{-3}$
0.9800	0.0333	$6.082 \times 10^{-5}$	0.120	$5.234 \times 10^{-2}$	$8.544 \times 10^{-3}$
0.9867	0.0333	$5.985 \times 10^{-5}$	0.121	$4.890 \times 10^{-2}$	$8.488 \times 10^{-3}$
0.9933	0.0333	$5.875 \times 10^{-5}$	0.122	$4.577 \times 10^{-2}$	$8.389 \times 10^{-3}$
1.0000	0.0333	$5.811 \times 10^{-5}$	0.123	$4.217 \times 10^{-2}$	$8.358 \times 10^{-3}$
0.6667	0.0400	$2.457 \times 10^{-4}$	$-1.586 \times 10^{-2}$	$-1.472 \times 10^{-2}$	$8.788 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6733	0.0400	$2.447 \times 10^{-4}$	$-1.841 \times 10^{-2}$	$-4.450 \times 10^{-2}$	$8.961 \times 10^{-2}$
0.6800	0.0400	$2.463 \times 10^{-4}$	$-1.848 \times 10^{-2}$	$-8.672 \times 10^{-2}$	$9.187 \times 10^{-2}$
0.6867	0.0400	$2.526 \times 10^{-4}$	$-1.714 \times 10^{-2}$	-0.140	$9.502 \times 10^{-2}$
0.6933	0.0400	$2.693 \times 10^{-4}$	$-1.130 \times 10^{-2}$	-0.196	$9.942 \times 10^{-2}$
0.7000	0.0400	$2.944 \times 10^{-4}$	$5.838 \times 10^{-4}$	-0.249	$1.014 \times 10^{-1}$
0.7067	0.0400	$3.233 \times 10^{-4}$	$1.192 \times 10^{-2}$	-0.280	$1.001 \times 10^{-1}$
0.7133	0.0400	$3.702 \times 10^{-4}$	$2.117 \times 10^{-2}$	-0.279	$9.917 \times 10^{-2}$
0.7200	0.0400	$4.071 \times 10^{-4}$	$3.320 \times 10^{-2}$	-0.248	$9.767 \times 10^{-2}$
0.7267	0.0400	$4.145 \times 10^{-4}$	$4.222 \times 10^{-2}$	-0.202	$9.273 \times 10^{-2}$
0.7333	0.0400	$3.919 \times 10^{-4}$	$4.658 \times 10^{-2}$	-0.145	$8.610 \times 10^{-2}$
0.7400	0.0400	$3.621 \times 10^{-4}$	$4.724 \times 10^{-2}$	$-7.366 \times 10^{-2}$	$8.075 \times 10^{-2}$
0.7467	0.0400	$3.411 \times 10^{-4}$	$3.401 \times 10^{-2}$	$-4.502 \times 10^{-3}$	$7.795 \times 10^{-2}$
0.7533	0.0400	$3.620 \times 10^{-4}$	$-2.252 \times 10^{-4}$	$5.553 \times 10^{-2}$	$8.104 \times 10^{-2}$
0.7600	0.0400	$4.237 \times 10^{-4}$	$-4.650 \times 10^{-2}$	$9.505 \times 10^{-2}$	$8.713 \times 10^{-2}$
0.7667	0.0400	$6.230 \times 10^{-4}$	-0.105	0.131	$1.029 \times 10^{-1}$
0.7733	0.0400	$1.105 \times 10^{-3}$	-0.165	0.176	$1.115 \times 10^{-1}$
0.7800	0.0400	$2.245 \times 10^{-3}$	-0.201	0.213	$1.033 \times 10^{-1}$
0.7867	0.0400	$3.263 \times 10^{-3}$	-0.222	0.229	$6.170 \times 10^{-2}$
0.7933	0.0400	$4.151 \times 10^{-3}$	-0.224	0.239	$4.832 \times 10^{-2}$
0.8000	0.0400	$5.092 \times 10^{-3}$	-0.211	0.253	$5.640 \times 10^{-2}$
0.8067	0.0400	$5.170 \times 10^{-3}$	-0.175	0.254	$5.997 \times 10^{-2}$
0.8133	0.0400	$5.280 \times 10^{-3}$	-0.131	0.254	$6.525 \times 10^{-2}$
0.8200	0.0400	$5.212 \times 10^{-3}$	$-8.582 \times 10^{-2}$	0.253	$6.401 \times 10^{-2}$
0.8267	0.0400	$5.195 \times 10^{-3}$	$-4.514 \times 10^{-2}$	0.253	$6.827 \times 10^{-2}$
0.8333	0.0400	$5.345 \times 10^{-3}$	$4.404 \times 10^{-5}$	0.254	$7.101 \times 10^{-2}$
0.8400	0.0400	$5.337 \times 10^{-3}$	$4.349 \times 10^{-2}$	0.254	$7.019 \times 10^{-2}$
0.8467	0.0400	$5.126 \times 10^{-3}$	$8.156 \times 10^{-2}$	0.256	$6.287 \times 10^{-2}$
0.8533	0.0400	$5.217 \times 10^{-3}$	0.130	0.254	$6.474 \times 10^{-2}$
0.8600	0.0400	$4.888 \times 10^{-3}$	0.172	0.256	$5.742 \times 10^{-2}$
0.8667	0.0400	$4.755 \times 10^{-3}$	0.208	0.256	$5.386 \times 10^{-2}$
0.8733	0.0400	$3.861 \times 10^{-3}$	0.228	0.238	$4.086 \times 10^{-2}$
0.8800	0.0400	$2.702 \times 10^{-3}$	0.245	0.223	$2.851 \times 10^{-2}$
0.8867	0.0400	$1.793 \times 10^{-3}$	0.259	0.207	$1.881 \times 10^{-2}$
0.8933	0.0400	$1.103 \times 10^{-3}$	0.271	0.192	$1.156 \times 10^{-2}$
0.9000	0.0400	$6.396 \times 10^{-4}$	0.281	0.179	$7.129 \times 10^{-3}$
0.9067	0.0400	$3.798 \times 10^{-4}$	0.285	0.165	$5.664 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9133	0.0400	$2.233 \times 10^{-4}$	0.279	0.153	$5.516 \times 10^{-3}$
0.9200	0.0400	$1.486 \times 10^{-4}$	0.258	0.141	$6.812 \times 10^{-3}$
0.9267	0.0400	$1.032 \times 10^{-4}$	0.232	0.127	$7.004 \times 10^{-3}$
0.9333	0.0400	$8.555 \times 10^{-5}$	0.201	0.113	$7.682 \times 10^{-3}$
0.9400	0.0400	$7.472 \times 10^{-5}$	0.176	0.102	$7.791 \times 10^{-3}$
0.9467	0.0400	$6.837 \times 10^{-5}$	0.155	$9.137 \times 10^{-2}$	$7.879 \times 10^{-3}$
0.9533	0.0400	$6.686 \times 10^{-5}$	0.147	$8.562 \times 10^{-2}$	$8.057 \times 10^{-3}$
0.9600	0.0400	$6.471 \times 10^{-5}$	0.138	$7.954 \times 10^{-2}$	$8.189 \times 10^{-3}$
0.9667	0.0400	$6.439 \times 10^{-5}$	0.135	$7.518 \times 10^{-2}$	$8.330 \times 10^{-3}$
0.9733	0.0400	$6.353 \times 10^{-5}$	0.132	$7.048 \times 10^{-2}$	$8.427 \times 10^{-3}$
0.9800	0.0400	$6.251 \times 10^{-5}$	0.131	$6.601 \times 10^{-2}$	$8.464 \times 10^{-3}$
0.9867	0.0400	$6.146 \times 10^{-5}$	0.131	$6.271 \times 10^{-2}$	$8.375 \times 10^{-3}$
0.9933	0.0400	$6.041 \times 10^{-5}$	0.132	$5.891 \times 10^{-2}$	$8.314 \times 10^{-3}$
1.0000	0.0400	$5.965 \times 10^{-5}$	0.133	$5.520 \times 10^{-2}$	$8.299 \times 10^{-3}$
0.6667	0.0467	$2.382 \times 10^{-4}$	$2.112 \times 10^{-2}$	$-1.362 \times 10^{-2}$	$8.621 \times 10^{-2}$
0.6733	0.0467	$2.368 \times 10^{-4}$	$1.640 \times 10^{-2}$	$-4.811 \times 10^{-2}$	$8.785 \times 10^{-2}$
0.6800	0.0467	$2.406 \times 10^{-4}$	$9.006 \times 10^{-3}$	$-9.753 \times 10^{-2}$	$9.049 \times 10^{-2}$
0.6867	0.0467	$2.501 \times 10^{-4}$	$3.472 \times 10^{-5}$	-0.156	$9.477 \times 10^{-2}$
0.6933	0.0467	$2.639 \times 10^{-4}$	$1.765 \times 10^{-4}$	-0.215	$9.794 \times 10^{-2}$
0.7000	0.0467	$2.898 \times 10^{-4}$	$4.137 \times 10^{-3}$	-0.261	$9.955 \times 10^{-2}$
0.7067	0.0467	$3.279 \times 10^{-4}$	$1.052 \times 10^{-2}$	-0.291	$1.001 \times 10^{-1}$
0.7133	0.0467	$3.728 \times 10^{-4}$	$1.997 \times 10^{-2}$	-0.288	$9.744 \times 10^{-2}$
0.7200	0.0467	$4.164 \times 10^{-4}$	$2.735 \times 10^{-2}$	-0.262	$9.261 \times 10^{-2}$
0.7267	0.0467	$4.136 \times 10^{-4}$	$3.434 \times 10^{-2}$	-0.214	$8.569 \times 10^{-2}$
0.7333	0.0467	$3.912 \times 10^{-4}$	$3.328 \times 10^{-2}$	-0.148	$8.138 \times 10^{-2}$
0.7400	0.0467	$3.591 \times 10^{-4}$	$2.058 \times 10^{-2}$	$-6.626 \times 10^{-2}$	$7.719 \times 10^{-2}$
0.7467	0.0467	$3.501 \times 10^{-4}$	$-7.267 \times 10^{-3}$	$1.410 \times 10^{-2}$	$7.564 \times 10^{-2}$
0.7533	0.0467	$3.840 \times 10^{-4}$	$-5.578 \times 10^{-2}$	$8.763 \times 10^{-2}$	$7.696 \times 10^{-2}$
0.7600	0.0467	$5.201 \times 10^{-4}$	-0.111	0.139	$8.609 \times 10^{-2}$
0.7667	0.0467	$9.277 \times 10^{-4}$	-0.160	0.181	$9.851 \times 10^{-2}$
0.7733	0.0467	$1.873 \times 10^{-3}$	-0.191	0.216	$1.011 \times 10^{-1}$
0.7800	0.0467	$2.916 \times 10^{-3}$	-0.208	0.233	$7.349 \times 10^{-2}$
0.7867	0.0467	$3.407 \times 10^{-3}$	-0.220	0.241	$4.253 \times 10^{-2}$
0.7933	0.0467	$4.108 \times 10^{-3}$	-0.213	0.253	$4.235 \times 10^{-2}$
0.8000	0.0467	$4.817 \times 10^{-3}$	-0.191	0.270	$5.032 \times 10^{-2}$
0.8067	0.0467	$4.958 \times 10^{-3}$	-0.154	0.268	$5.384 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8133	0.0467	$4.983 \times 10^{-3}$	-0.118	0.265	$5.594 \times 10^{-2}$
0.8200	0.0467	$4.939 \times 10^{-3}$	$-8.320 \times 10^{-2}$	0.265	$5.947 \times 10^{-2}$
0.8267	0.0467	$5.031 \times 10^{-3}$	$-3.843 \times 10^{-2}$	0.266	$6.012 \times 10^{-2}$
0.8333	0.0467	$4.919 \times 10^{-3}$	$-3.786 \times 10^{-4}$	0.264	$5.938 \times 10^{-2}$
0.8400	0.0467	$5.056 \times 10^{-3}$	$4.043 \times 10^{-2}$	0.265	$5.967 \times 10^{-2}$
0.8467	0.0467	$4.914 \times 10^{-3}$	$8.480 \times 10^{-2}$	0.264	$5.820 \times 10^{-2}$
0.8533	0.0467	$4.852 \times 10^{-3}$	0.119	0.265	$5.422 \times 10^{-2}$
0.8600	0.0467	$4.750 \times 10^{-3}$	0.157	0.267	$5.178 \times 10^{-2}$
0.8667	0.0467	$4.775 \times 10^{-3}$	0.195	0.267	$4.925 \times 10^{-2}$
0.8733	0.0467	$4.020 \times 10^{-3}$	0.214	0.253	$4.008 \times 10^{-2}$
0.8800	0.0467	$2.982 \times 10^{-3}$	0.231	0.238	$2.861 \times 10^{-2}$
0.8867	0.0467	$2.194 \times 10^{-3}$	0.245	0.224	$2.078 \times 10^{-2}$
0.8933	0.0467	$1.534 \times 10^{-3}$	0.258	0.211	$1.440 \times 10^{-2}$
0.9000	0.0467	$1.024 \times 10^{-3}$	0.269	0.197	$9.581 \times 10^{-3}$
0.9067	0.0467	$6.542 \times 10^{-4}$	0.278	0.185	$6.546 \times 10^{-3}$
0.9133	0.0467	$4.076 \times 10^{-4}$	0.282	0.175	$5.284 \times 10^{-3}$
0.9200	0.0467	$2.598 \times 10^{-4}$	0.277	0.165	$5.588 \times 10^{-3}$
0.9267	0.0467	$1.705 \times 10^{-4}$	0.263	0.155	$6.336 \times 10^{-3}$
0.9333	0.0467	$1.214 \times 10^{-4}$	0.239	0.142	$7.096 \times 10^{-3}$
0.9400	0.0467	$9.353 \times 10^{-5}$	0.213	0.127	$7.364 \times 10^{-3}$
0.9467	0.0467	$7.893 \times 10^{-5}$	0.187	0.114	$7.534 \times 10^{-3}$
0.9533	0.0467	$7.408 \times 10^{-5}$	0.171	0.105	$7.816 \times 10^{-3}$
0.9600	0.0467	$7.041 \times 10^{-5}$	0.158	$9.780 \times 10^{-2}$	$8.031 \times 10^{-3}$
0.9667	0.0467	$6.700 \times 10^{-5}$	0.150	$9.123 \times 10^{-2}$	$8.093 \times 10^{-3}$
0.9733	0.0467	$6.536 \times 10^{-5}$	0.146	$8.567 \times 10^{-2}$	$8.181 \times 10^{-3}$
0.9800	0.0467	$6.431 \times 10^{-5}$	0.143	$8.061 \times 10^{-2}$	$8.255 \times 10^{-3}$
0.9867	0.0467	$6.294 \times 10^{-5}$	0.141	$7.617 \times 10^{-2}$	$8.193 \times 10^{-3}$
0.9933	0.0467	$6.176 \times 10^{-5}$	0.141	$7.230 \times 10^{-2}$	$8.156 \times 10^{-3}$
1.0000	0.0467	$6.090 \times 10^{-5}$	0.141	$6.840 \times 10^{-2}$	$8.163 \times 10^{-3}$
0.6667	0.0533	$2.402 \times 10^{-4}$	$6.222 \times 10^{-2}$	$-8.997 \times 10^{-3}$	$8.799 \times 10^{-2}$
0.6733	0.0533	$2.390 \times 10^{-4}$	$5.020 \times 10^{-2}$	$-4.583 \times 10^{-2}$	$9.007 \times 10^{-2}$
0.6800	0.0533	$2.439 \times 10^{-4}$	$3.581 \times 10^{-2}$	$-9.494 \times 10^{-2}$	$9.338 \times 10^{-2}$
0.6867	0.0533	$2.545 \times 10^{-4}$	$2.048 \times 10^{-2}$	-0.156	$9.774 \times 10^{-2}$
0.6933	0.0533	$2.713 \times 10^{-4}$	$9.977 \times 10^{-3}$	-0.221	$1.018 \times 10^{-1}$
0.7000	0.0533	$2.978 \times 10^{-4}$	$3.646 \times 10^{-3}$	-0.274	$1.038 \times 10^{-1}$
0.7067	0.0533	$3.407 \times 10^{-4}$	$5.893 \times 10^{-3}$	-0.302	$1.034 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7133	0.0533	$4.000 \times 10^{-4}$	$1.259 \times 10^{-2}$	-0.295	$1.003 \times 10^{-1}$
0.7200	0.0533	$4.412 \times 10^{-4}$	$2.231 \times 10^{-2}$	-0.262	$9.380 \times 10^{-2}$
0.7267	0.0533	$4.398 \times 10^{-4}$	$2.537 \times 10^{-2}$	-0.210	$8.876 \times 10^{-2}$
0.7333	0.0533	$4.045 \times 10^{-4}$	$2.128 \times 10^{-2}$	-0.139	$8.230 \times 10^{-2}$
0.7400	0.0533	$3.737 \times 10^{-4}$	$-2.120 \times 10^{-3}$	$-4.485 \times 10^{-2}$	$7.922 \times 10^{-2}$
0.7467	0.0533	$3.736 \times 10^{-4}$	$-4.574 \times 10^{-2}$	$4.872 \times 10^{-2}$	$7.442 \times 10^{-2}$
0.7533	0.0533	$4.573 \times 10^{-4}$	-0.106	0.128	$7.591 \times 10^{-2}$
0.7600	0.0533	$7.314 \times 10^{-4}$	-0.159	0.180	$8.073 \times 10^{-2}$
0.7667	0.0533	$1.496 \times 10^{-3}$	-0.185	0.216	$9.099 \times 10^{-2}$
0.7733	0.0533	$2.592 \times 10^{-3}$	-0.198	0.237	$7.760 \times 10^{-2}$
0.7800	0.0533	$3.030 \times 10^{-3}$	-0.211	0.244	$4.602 \times 10^{-2}$
0.7867	0.0533	$3.312 \times 10^{-3}$	-0.213	0.252	$3.308 \times 10^{-2}$
0.7933	0.0533	$3.927 \times 10^{-3}$	-0.200	0.264	$3.766 \times 10^{-2}$
0.8000	0.0533	$4.748 \times 10^{-3}$	-0.179	0.279	$4.807 \times 10^{-2}$
0.8067	0.0533	$4.748 \times 10^{-3}$	-0.146	0.279	$4.889 \times 10^{-2}$
0.8133	0.0533	$4.851 \times 10^{-3}$	-0.117	0.278	$5.301 \times 10^{-2}$
0.8200	0.0533	$4.820 \times 10^{-3}$	$-6.645 \times 10^{-2}$	0.277	$5.331 \times 10^{-2}$
0.8267	0.0533	$4.846 \times 10^{-3}$	$-2.839 \times 10^{-2}$	0.275	$5.337 \times 10^{-2}$
0.8333	0.0533	$4.828 \times 10^{-3}$	$1.813 \times 10^{-3}$	0.277	$5.278 \times 10^{-2}$
0.8400	0.0533	$4.720 \times 10^{-3}$	$3.263 \times 10^{-2}$	0.275	$5.214 \times 10^{-2}$
0.8467	0.0533	$4.795 \times 10^{-3}$	$6.804 \times 10^{-2}$	0.276	$5.275 \times 10^{-2}$
0.8533	0.0533	$4.622 \times 10^{-3}$	0.118	0.278	$5.017 \times 10^{-2}$
0.8600	0.0533	$4.471 \times 10^{-3}$	0.149	0.278	$4.599 \times 10^{-2}$
0.8667	0.0533	$4.655 \times 10^{-3}$	0.184	0.275	$4.637 \times 10^{-2}$
0.8733	0.0533	$3.935 \times 10^{-3}$	0.200	0.265	$3.740 \times 10^{-2}$
0.8800	0.0533	$3.050 \times 10^{-3}$	0.217	0.251	$2.761 \times 10^{-2}$
0.8867	0.0533	$2.357 \times 10^{-3}$	0.232	0.238	$2.069 \times 10^{-2}$
0.8933	0.0533	$1.820 \times 10^{-3}$	0.245	0.225	$1.569 \times 10^{-2}$
0.9000	0.0533	$1.318 \times 10^{-3}$	0.257	0.213	$1.129 \times 10^{-2}$
0.9067	0.0533	$9.437 \times 10^{-4}$	0.267	0.201	$8.024 \times 10^{-3}$
0.9133	0.0533	$6.379 \times 10^{-4}$	0.275	0.190	$5.723 \times 10^{-3}$
0.9200	0.0533	$4.235 \times 10^{-4}$	0.279	0.181	$4.898 \times 10^{-3}$
0.9267	0.0533	$2.796 \times 10^{-4}$	0.276	0.175	$5.072 \times 10^{-3}$
0.9333	0.0533	$1.889 \times 10^{-4}$	0.264	0.166	$6.068 \times 10^{-3}$
0.9400	0.0533	$1.299 \times 10^{-4}$	0.245	0.152	$6.755 \times 10^{-3}$
0.9467	0.0533	$1.002 \times 10^{-4}$	0.219	0.138	$7.253 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9533	0.0533	$8.548 \times 10^{-5}$	0.196	0.126	$7.537 \times 10^{-3}$
0.9600	0.0533	$7.663 \times 10^{-5}$	0.178	0.116	$7.742 \times 10^{-3}$
0.9667	0.0533	$7.028 \times 10^{-5}$	0.166	0.108	$7.813 \times 10^{-3}$
0.9733	0.0533	$6.839 \times 10^{-5}$	0.160	0.102	$7.901 \times 10^{-3}$
0.9800	0.0533	$6.622 \times 10^{-5}$	0.155	$9.557 \times 10^{-2}$	$7.950 \times 10^{-3}$
0.9867	0.0533	$6.468 \times 10^{-5}$	0.152	$9.053 \times 10^{-2}$	$7.949 \times 10^{-3}$
0.9933	0.0533	$6.306 \times 10^{-5}$	0.150	$8.571 \times 10^{-2}$	$7.947 \times 10^{-3}$
1.0000	0.0533	$6.202 \times 10^{-5}$	0.149	$8.156 \times 10^{-2}$	$7.980 \times 10^{-3}$
0.6667	0.0600	$2.407 \times 10^{-4}$	0.104	$1.134 \times 10^{-3}$	$8.973 \times 10^{-2}$
0.6733	0.0600	$2.421 \times 10^{-4}$	$8.457 \times 10^{-2}$	$-3.456 \times 10^{-2}$	$9.269 \times 10^{-2}$
0.6800	0.0600	$2.484 \times 10^{-4}$	$6.089 \times 10^{-2}$	$-8.357 \times 10^{-2}$	$9.709 \times 10^{-2}$
0.6867	0.0600	$2.623 \times 10^{-4}$	$3.491 \times 10^{-2}$	-0.146	$1.038 \times 10^{-1}$
0.6933	0.0600	$2.837 \times 10^{-4}$	$1.331 \times 10^{-2}$	-0.214	$1.101 \times 10^{-1}$
0.7000	0.0600	$3.162 \times 10^{-4}$	$1.401 \times 10^{-3}$	-0.270	$1.126 \times 10^{-1}$
0.7067	0.0600	$3.684 \times 10^{-4}$	$1.534 \times 10^{-3}$	-0.301	$1.132 \times 10^{-1}$
0.7133	0.0600	$4.348 \times 10^{-4}$	$4.674 \times 10^{-3}$	-0.288	$1.085 \times 10^{-1}$
0.7200	0.0600	$4.868 \times 10^{-4}$	$1.479 \times 10^{-2}$	-0.252	$1.025 \times 10^{-1}$
0.7267	0.0600	$4.833 \times 10^{-4}$	$1.682 \times 10^{-2}$	-0.196	$9.564 \times 10^{-2}$
0.7333	0.0600	$4.443 \times 10^{-4}$	$6.012 \times 10^{-3}$	-0.115	$8.990 \times 10^{-2}$
0.7400	0.0600	$4.126 \times 10^{-4}$	$-2.506 \times 10^{-2}$	$-1.343 \times 10^{-2}$	$8.421 \times 10^{-2}$
0.7467	0.0600	$4.472 \times 10^{-4}$	$-7.907 \times 10^{-2}$	$9.257 \times 10^{-2}$	$8.120 \times 10^{-2}$
0.7533	0.0600	$6.263 \times 10^{-4}$	-0.144	0.172	$7.780 \times 10^{-2}$
0.7600	0.0600	$1.136 \times 10^{-3}$	-0.180	0.215	$7.678 \times 10^{-2}$
0.7667	0.0600	$2.149 \times 10^{-3}$	-0.192	0.238	$7.545 \times 10^{-2}$
0.7733	0.0600	$2.825 \times 10^{-3}$	-0.202	0.248	$5.227 \times 10^{-2}$
0.7800	0.0600	$2.864 \times 10^{-3}$	-0.210	0.253	$3.073 \times 10^{-2}$
0.7867	0.0600	$3.090 \times 10^{-3}$	-0.203	0.262	$2.780 \times 10^{-2}$
0.7933	0.0600	$3.752 \times 10^{-3}$	-0.186	0.275	$3.406 \times 10^{-2}$
0.8000	0.0600	$4.510 \times 10^{-3}$	-0.166	0.287	$4.391 \times 10^{-2}$
0.8067	0.0600	$4.578 \times 10^{-3}$	-0.137	0.288	$4.542 \times 10^{-2}$
0.8133	0.0600	$4.604 \times 10^{-3}$	-0.105	0.288	$4.837 \times 10^{-2}$
0.8200	0.0600	$4.625 \times 10^{-3}$	$-6.068 \times 10^{-2}$	0.285	$4.810 \times 10^{-2}$
0.8267	0.0600	$4.627 \times 10^{-3}$	$-2.816 \times 10^{-2}$	0.284	$4.801 \times 10^{-2}$
0.8333	0.0600	$4.609 \times 10^{-3}$	$1.495 \times 10^{-3}$	0.284	$4.779 \times 10^{-2}$
0.8400	0.0600	$4.635 \times 10^{-3}$	$2.999 \times 10^{-2}$	0.285	$4.831 \times 10^{-2}$
0.8467	0.0600	$4.354 \times 10^{-3}$	$6.046 \times 10^{-2}$	0.287	$4.586 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8533	0.0600	$4.538 \times 10^{-3}$	0.108	0.287	$4.738 \times 10^{-2}$
0.8600	0.0600	$4.271 \times 10^{-3}$	0.136	0.288	$4.290 \times 10^{-2}$
0.8667	0.0600	$4.149 \times 10^{-3}$	0.165	0.287	$4.094 \times 10^{-2}$
0.8733	0.0600	$3.763 \times 10^{-3}$	0.186	0.275	$3.420 \times 10^{-2}$
0.8800	0.0600	$3.054 \times 10^{-3}$	0.204	0.263	$2.638 \times 10^{-2}$
0.8867	0.0600	$2.408 \times 10^{-3}$	0.220	0.250	$1.992 \times 10^{-2}$
0.8933	0.0600	$1.935 \times 10^{-3}$	0.234	0.238	$1.550 \times 10^{-2}$
0.9000	0.0600	$1.532 \times 10^{-3}$	0.245	0.226	$1.216 \times 10^{-2}$
0.9067	0.0600	$1.157 \times 10^{-3}$	0.256	0.215	$9.045 \times 10^{-3}$
0.9133	0.0600	$8.517 \times 10^{-4}$	0.265	0.204	$6.659 \times 10^{-3}$
0.9200	0.0600	$6.149 \times 10^{-4}$	0.273	0.194	$5.038 \times 10^{-3}$
0.9267	0.0600	$4.277 \times 10^{-4}$	0.277	0.187	$4.332 \times 10^{-3}$
0.9333	0.0600	$3.019 \times 10^{-4}$	0.274	0.181	$4.923 \times 10^{-3}$
0.9400	0.0600	$2.075 \times 10^{-4}$	0.264	0.174	$5.776 \times 10^{-3}$
0.9467	0.0600	$1.442 \times 10^{-4}$	0.247	0.162	$6.541 \times 10^{-3}$
0.9533	0.0600	$1.107 \times 10^{-4}$	0.224	0.149	$7.138 \times 10^{-3}$
0.9600	0.0600	$8.989 \times 10^{-5}$	0.203	0.137	$7.333 \times 10^{-3}$
0.9667	0.0600	$7.875 \times 10^{-5}$	0.186	0.126	$7.471 \times 10^{-3}$
0.9733	0.0600	$7.417 \times 10^{-5}$	0.176	0.118	$7.642 \times 10^{-3}$
0.9800	0.0600	$6.855 \times 10^{-5}$	0.166	0.110	$7.613 \times 10^{-3}$
0.9867	0.0600	$6.617 \times 10^{-5}$	0.162	0.104	$7.597 \times 10^{-3}$
0.9933	0.0600	$6.443 \times 10^{-5}$	0.158	$9.917 \times 10^{-2}$	$7.668 \times 10^{-3}$
1.0000	0.0600	$6.326 \times 10^{-5}$	0.156	$9.487 \times 10^{-2}$	$7.762 \times 10^{-3}$
0.6667	0.0667	$2.440 \times 10^{-4}$	0.148	$1.564 \times 10^{-2}$	$9.231 \times 10^{-2}$
0.6733	0.0667	$2.465 \times 10^{-4}$	0.122	$-1.549 \times 10^{-2}$	$9.607 \times 10^{-2}$
0.6800	0.0667	$2.589 \times 10^{-4}$	$9.085 \times 10^{-2}$	$-6.056 \times 10^{-2}$	$1.037 \times 10^{-1}$
0.6867	0.0667	$2.798 \times 10^{-4}$	$5.576 \times 10^{-2}$	-0.124	$1.138 \times 10^{-1}$
0.6933	0.0667	$3.049 \times 10^{-4}$	$2.300 \times 10^{-2}$	-0.194	$1.219 \times 10^{-1}$
0.7000	0.0667	$3.414 \times 10^{-4}$	$-3.574 \times 10^{-4}$	-0.252	$1.257 \times 10^{-1}$
0.7067	0.0667	$4.008 \times 10^{-4}$	$-7.315 \times 10^{-3}$	-0.288	$1.253 \times 10^{-1}$
0.7133	0.0667	$4.883 \times 10^{-4}$	$-1.249 \times 10^{-3}$	-0.278	$1.234 \times 10^{-1}$
0.7200	0.0667	$5.559 \times 10^{-4}$	$5.775 \times 10^{-3}$	-0.239	$1.161 \times 10^{-1}$
0.7267	0.0667	$5.477 \times 10^{-4}$	$7.155 \times 10^{-3}$	-0.176	$1.084 \times 10^{-1}$
0.7333	0.0667	$5.001 \times 10^{-4}$	$-5.549 \times 10^{-3}$	$-8.651 \times 10^{-2}$	$1.006 \times 10^{-1}$
0.7400	0.0667	$4.898 \times 10^{-4}$	$-4.830 \times 10^{-2}$	$2.660 \times 10^{-2}$	$9.550 \times 10^{-2}$
0.7467	0.0667	$5.836 \times 10^{-4}$	-0.111	0.137	$8.759 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7533	0.0667	$9.322 \times 10^{-4}$	-0.165	0.207	$7.800 \times 10^{-2}$
0.7600	0.0667	$1.731 \times 10^{-3}$	-0.187	0.237	$7.147 \times 10^{-2}$
0.7667	0.0667	$2.557 \times 10^{-3}$	-0.194	0.250	$5.757 \times 10^{-2}$
0.7733	0.0667	$2.639 \times 10^{-3}$	-0.203	0.256	$3.350 \times 10^{-2}$
0.7800	0.0667	$2.609 \times 10^{-3}$	-0.204	0.262	$2.350 \times 10^{-2}$
0.7867	0.0667	$2.926 \times 10^{-3}$	-0.192	0.272	$2.483 \times 10^{-2}$
0.7933	0.0667	$3.571 \times 10^{-3}$	-0.174	0.283	$3.126 \times 10^{-2}$
0.8000	0.0667	$4.270 \times 10^{-3}$	-0.152	0.295	$3.978 \times 10^{-2}$
0.8067	0.0667	$4.345 \times 10^{-3}$	-0.127	0.298	$4.150 \times 10^{-2}$
0.8133	0.0667	$4.428 \times 10^{-3}$	-0.100	0.298	$4.516 \times 10^{-2}$
0.8200	0.0667	$4.356 \times 10^{-3}$	$-5.423 \times 10^{-2}$	0.297	$4.297 \times 10^{-2}$
0.8267	0.0667	$4.311 \times 10^{-3}$	$-2.654 \times 10^{-2}$	0.295	$4.277 \times 10^{-2}$
0.8333	0.0667	$4.320 \times 10^{-3}$	$-1.466 \times 10^{-3}$	0.294	$4.286 \times 10^{-2}$
0.8400	0.0667	$4.299 \times 10^{-3}$	$2.566 \times 10^{-2}$	0.296	$4.286 \times 10^{-2}$
0.8467	0.0667	$4.349 \times 10^{-3}$	$5.429 \times 10^{-2}$	0.296	$4.303 \times 10^{-2}$
0.8533	0.0667	$4.213 \times 10^{-3}$	$9.918 \times 10^{-2}$	0.297	$4.282 \times 10^{-2}$
0.8600	0.0667	$4.225 \times 10^{-3}$	0.123	0.300	$4.075 \times 10^{-2}$
0.8667	0.0667	$4.170 \times 10^{-3}$	0.152	0.295	$3.877 \times 10^{-2}$
0.8733	0.0667	$3.617 \times 10^{-3}$	0.174	0.284	$3.149 \times 10^{-2}$
0.8800	0.0667	$2.938 \times 10^{-3}$	0.192	0.272	$2.430 \times 10^{-2}$
0.8867	0.0667	$2.440 \times 10^{-3}$	0.208	0.261	$1.935 \times 10^{-2}$
0.8933	0.0667	$1.980 \times 10^{-3}$	0.222	0.250	$1.516 \times 10^{-2}$
0.9000	0.0667	$1.625 \times 10^{-3}$	0.235	0.238	$1.205 \times 10^{-2}$
0.9067	0.0667	$1.318 \times 10^{-3}$	0.246	0.228	$9.635 \times 10^{-3}$
0.9133	0.0667	$1.013 \times 10^{-3}$	0.255	0.217	$7.323 \times 10^{-3}$
0.9200	0.0667	$7.738 \times 10^{-4}$	0.264	0.207	$5.564 \times 10^{-3}$
0.9267	0.0667	$5.783 \times 10^{-4}$	0.270	0.198	$4.314 \times 10^{-3}$
0.9333	0.0667	$4.302 \times 10^{-4}$	0.274	0.192	$4.030 \times 10^{-3}$
0.9400	0.0667	$3.134 \times 10^{-4}$	0.272	0.187	$4.549 \times 10^{-3}$
0.9467	0.0667	$2.243 \times 10^{-4}$	0.264	0.181	$5.661 \times 10^{-3}$
0.9533	0.0667	$1.576 \times 10^{-4}$	0.247	0.171	$6.606 \times 10^{-3}$
0.9600	0.0667	$1.144 \times 10^{-4}$	0.228	0.159	$6.829 \times 10^{-3}$
0.9667	0.0667	$9.411 \times 10^{-5}$	0.206	0.145	$7.184 \times 10^{-3}$
0.9733	0.0667	$8.118 \times 10^{-5}$	0.190	0.135	$7.251 \times 10^{-3}$
0.9800	0.0667	$7.309 \times 10^{-5}$	0.179	0.126	$7.229 \times 10^{-3}$
0.9867	0.0667	$6.846 \times 10^{-5}$	0.173	0.118	$7.228 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9933	0.0667	$6.686 \times 10^{-5}$	0.168	0.114	$7.363 \times 10^{-3}$
1.0000	0.0667	$6.516 \times 10^{-5}$	0.164	0.108	$7.512 \times 10^{-3}$
0.6667	0.0733	$2.500 \times 10^{-4}$	0.199	$3.425 \times 10^{-2}$	$9.559 \times 10^{-2}$
0.6733	0.0733	$2.547 \times 10^{-4}$	0.167	$8.084 \times 10^{-3}$	$1.007 \times 10^{-1}$
0.6800	0.0733	$2.703 \times 10^{-4}$	0.128	$-2.950 \times 10^{-2}$	$1.113 \times 10^{-1}$
0.6867	0.0733	$2.959 \times 10^{-4}$	$8.168 \times 10^{-2}$	$-8.791 \times 10^{-2}$	$1.255 \times 10^{-1}$
0.6933	0.0733	$3.272 \times 10^{-4}$	$3.572 \times 10^{-2}$	-0.160	$1.378 \times 10^{-1}$
0.7000	0.0733	$3.680 \times 10^{-4}$	$1.283 \times 10^{-3}$	-0.230	$1.419 \times 10^{-1}$
0.7067	0.0733	$4.373 \times 10^{-4}$	$-1.402 \times 10^{-2}$	-0.272	$1.437 \times 10^{-1}$
0.7133	0.0733	$5.489 \times 10^{-4}$	$-1.003 \times 10^{-2}$	-0.265	$1.415 \times 10^{-1}$
0.7200	0.0733	$6.325 \times 10^{-4}$	$-1.286 \times 10^{-4}$	-0.226	$1.326 \times 10^{-1}$
0.7267	0.0733	$6.356 \times 10^{-4}$	$-2.938 \times 10^{-4}$	-0.154	$1.249 \times 10^{-1}$
0.7333	0.0733	$5.856 \times 10^{-4}$	$-2.093 \times 10^{-2}$	$-5.295 \times 10^{-2}$	$1.166 \times 10^{-1}$
0.7400	0.0733	$6.082 \times 10^{-4}$	$-6.817 \times 10^{-2}$	$6.977 \times 10^{-2}$	$1.087 \times 10^{-1}$
0.7467	0.0733	$8.084 \times 10^{-4}$	-0.133	0.179	$9.357 \times 10^{-2}$
0.7533	0.0733	$1.410 \times 10^{-3}$	-0.173	0.232	$7.724 \times 10^{-2}$
0.7600	0.0733	$2.280 \times 10^{-3}$	-0.188	0.252	$5.991 \times 10^{-2}$
0.7667	0.0733	$2.523 \times 10^{-3}$	-0.195	0.258	$3.891 \times 10^{-2}$
0.7733	0.0733	$2.338 \times 10^{-3}$	-0.202	0.262	$2.226 \times 10^{-2}$
0.7800	0.0733	$2.419 \times 10^{-3}$	-0.196	0.270	$1.958 \times 10^{-2}$
0.7867	0.0733	$2.830 \times 10^{-3}$	-0.181	0.280	$2.285 \times 10^{-2}$
0.7933	0.0733	$3.363 \times 10^{-3}$	-0.162	0.290	$2.832 \times 10^{-2}$
0.8000	0.0733	$3.975 \times 10^{-3}$	-0.142	0.301	$3.528 \times 10^{-2}$
0.8067	0.0733	$4.193 \times 10^{-3}$	-0.120	0.307	$3.952 \times 10^{-2}$
0.8133	0.0733	$4.259 \times 10^{-3}$	$-9.231 \times 10^{-2}$	0.307	$4.188 \times 10^{-2}$
0.8200	0.0733	$4.210 \times 10^{-3}$	$-5.238 \times 10^{-2}$	0.305	$4.006 \times 10^{-2}$
0.8267	0.0733	$4.153 \times 10^{-3}$	$-2.280 \times 10^{-2}$	0.305	$3.945 \times 10^{-2}$
0.8333	0.0733	$4.120 \times 10^{-3}$	$-3.032 \times 10^{-4}$	0.305	$3.914 \times 10^{-2}$
0.8400	0.0733	$4.136 \times 10^{-3}$	$2.495 \times 10^{-2}$	0.304	$3.926 \times 10^{-2}$
0.8467	0.0733	$4.075 \times 10^{-3}$	$5.249 \times 10^{-2}$	0.306	$3.862 \times 10^{-2}$
0.8533	0.0733	$4.147 \times 10^{-3}$	$9.412 \times 10^{-2}$	0.307	$4.093 \times 10^{-2}$
0.8600	0.0733	$3.907 \times 10^{-3}$	0.120	0.308	$3.690 \times 10^{-2}$
0.8667	0.0733	$3.914 \times 10^{-3}$	0.141	0.301	$3.472 \times 10^{-2}$
0.8733	0.0733	$3.346 \times 10^{-3}$	0.163	0.290	$2.814 \times 10^{-2}$
0.8800	0.0733	$2.819 \times 10^{-3}$	0.182	0.280	$2.243 \times 10^{-2}$
0.8867	0.0733	$2.354 \times 10^{-3}$	0.197	0.270	$1.783 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8933	0.0733	$1.992 \times 10^{-3}$	0.212	0.259	$1.463 \times 10^{-2}$
0.9000	0.0733	$1.653 \times 10^{-3}$	0.224	0.249	$1.178 \times 10^{-2}$
0.9067	0.0733	$1.380 \times 10^{-3}$	0.236	0.238	$9.545 \times 10^{-3}$
0.9133	0.0733	$1.137 \times 10^{-3}$	0.246	0.228	$7.649 \times 10^{-3}$
0.9200	0.0733	$9.004 \times 10^{-4}$	0.255	0.219	$6.024 \times 10^{-3}$
0.9267	0.0733	$7.048 \times 10^{-4}$	0.263	0.210	$4.696 \times 10^{-3}$
0.9333	0.0733	$5.415 \times 10^{-4}$	0.269	0.202	$3.766 \times 10^{-3}$
0.9400	0.0733	$4.170 \times 10^{-4}$	0.272	0.195	$3.518 \times 10^{-3}$
0.9467	0.0733	$3.190 \times 10^{-4}$	0.269	0.192	$4.271 \times 10^{-3}$
0.9533	0.0733	$2.306 \times 10^{-4}$	0.260	0.187	$5.514 \times 10^{-3}$
0.9600	0.0733	$1.644 \times 10^{-4}$	0.247	0.178	$6.322 \times 10^{-3}$
0.9667	0.0733	$1.198 \times 10^{-4}$	0.229	0.166	$6.688 \times 10^{-3}$
0.9733	0.0733	$9.658 \times 10^{-5}$	0.208	0.153	$7.026 \times 10^{-3}$
0.9800	0.0733	$8.158 \times 10^{-5}$	0.195	0.142	$6.922 \times 10^{-3}$
0.9867	0.0733	$7.383 \times 10^{-5}$	0.186	0.134	$6.924 \times 10^{-3}$
0.9933	0.0733	$7.062 \times 10^{-5}$	0.179	0.128	$7.107 \times 10^{-3}$
1.0000	0.0733	$6.714 \times 10^{-5}$	0.173	0.123	$7.171 \times 10^{-3}$
0.6667	0.0800	$2.564 \times 10^{-4}$	0.259	$5.914 \times 10^{-2}$	$9.832 \times 10^{-2}$
0.6733	0.0800	$2.653 \times 10^{-4}$	0.219	$3.433 \times 10^{-2}$	$1.056 \times 10^{-1}$
0.6800	0.0800	$2.813 \times 10^{-4}$	0.164	$-5.153 \times 10^{-3}$	$1.168 \times 10^{-1}$
0.6867	0.0800	$3.097 \times 10^{-4}$	$9.853 \times 10^{-2}$	$-6.135 \times 10^{-2}$	$1.336 \times 10^{-1}$
0.6933	0.0800	$3.441 \times 10^{-4}$	$4.412 \times 10^{-2}$	-0.137	$1.476 \times 10^{-1}$
0.7000	0.0800	$3.939 \times 10^{-4}$	$1.321 \times 10^{-3}$	-0.209	$1.579 \times 10^{-1}$
0.7067	0.0800	$4.880 \times 10^{-4}$	$-1.712 \times 10^{-2}$	-0.253	$1.670 \times 10^{-1}$
0.7133	0.0800	$6.293 \times 10^{-4}$	$-1.825 \times 10^{-2}$	-0.248	$1.656 \times 10^{-1}$
0.7200	0.0800	$7.376 \times 10^{-4}$	$-9.368 \times 10^{-3}$	-0.207	$1.545 \times 10^{-1}$
0.7267	0.0800	$7.398 \times 10^{-4}$	$-7.613 \times 10^{-3}$	-0.134	$1.454 \times 10^{-1}$
0.7333	0.0800	$6.981 \times 10^{-4}$	$-3.260 \times 10^{-2}$	$-1.866 \times 10^{-2}$	$1.373 \times 10^{-1}$
0.7400	0.0800	$8.091 \times 10^{-4}$	$-8.287 \times 10^{-2}$	0.111	$1.281 \times 10^{-1}$
0.7467	0.0800	$1.205 \times 10^{-3}$	-0.141	0.209	$1.034 \times 10^{-1}$
0.7533	0.0800	$1.902 \times 10^{-3}$	-0.176	0.249	$6.865 \times 10^{-2}$
0.7600	0.0800	$2.408 \times 10^{-3}$	-0.188	0.260	$4.510 \times 10^{-2}$
0.7667	0.0800	$2.263 \times 10^{-3}$	-0.195	0.264	$2.560 \times 10^{-2}$
0.7733	0.0800	$2.100 \times 10^{-3}$	-0.197	0.269	$1.701 \times 10^{-2}$
0.7800	0.0800	$2.293 \times 10^{-3}$	-0.187	0.277	$1.740 \times 10^{-2}$
0.7867	0.0800	$2.679 \times 10^{-3}$	-0.171	0.287	$2.092 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7933	0.0800	$3.140 \times 10^{-3}$	-0.152	0.296	$2.531 \times 10^{-2}$
0.8000	0.0800	$3.564 \times 10^{-3}$	-0.132	0.306	$3.013 \times 10^{-2}$
0.8067	0.0800	$3.830 \times 10^{-3}$	-0.107	0.315	$3.466 \times 10^{-2}$
0.8133	0.0800	$4.008 \times 10^{-3}$	$-8.679 \times 10^{-2}$	0.316	$3.768 \times 10^{-2}$
0.8200	0.0800	$3.980 \times 10^{-3}$	$-5.004 \times 10^{-2}$	0.315	$3.656 \times 10^{-2}$
0.8267	0.0800	$3.954 \times 10^{-3}$	$-2.349 \times 10^{-2}$	0.316	$3.627 \times 10^{-2}$
0.8333	0.0800	$3.859 \times 10^{-3}$	$-3.901 \times 10^{-4}$	0.315	$3.532 \times 10^{-2}$
0.8400	0.0800	$3.990 \times 10^{-3}$	$2.366 \times 10^{-2}$	0.315	$3.632 \times 10^{-2}$
0.8467	0.0800	$3.773 \times 10^{-3}$	$5.013 \times 10^{-2}$	0.315	$3.478 \times 10^{-2}$
0.8533	0.0800	$3.869 \times 10^{-3}$	$8.707 \times 10^{-2}$	0.316	$3.628 \times 10^{-2}$
0.8600	0.0800	$4.051 \times 10^{-3}$	0.110	0.314	$3.647 \times 10^{-2}$
0.8667	0.0800	$3.581 \times 10^{-3}$	0.132	0.306	$3.036 \times 10^{-2}$
0.8733	0.0800	$3.050 \times 10^{-3}$	0.153	0.296	$2.471 \times 10^{-2}$
0.8800	0.0800	$2.693 \times 10^{-3}$	0.171	0.287	$2.077 \times 10^{-2}$
0.8867	0.0800	$2.290 \times 10^{-3}$	0.188	0.277	$1.687 \times 10^{-2}$
0.8933	0.0800	$1.958 \times 10^{-3}$	0.201	0.267	$1.383 \times 10^{-2}$
0.9000	0.0800	$1.670 \times 10^{-3}$	0.214	0.258	$1.140 \times 10^{-2}$
0.9067	0.0800	$1.401 \times 10^{-3}$	0.226	0.248	$9.284 \times 10^{-3}$
0.9133	0.0800	$1.194 \times 10^{-3}$	0.236	0.238	$7.687 \times 10^{-3}$
0.9200	0.0800	$9.988 \times 10^{-4}$	0.246	0.229	$6.298 \times 10^{-3}$
0.9267	0.0800	$8.025 \times 10^{-4}$	0.254	0.220	$5.014 \times 10^{-3}$
0.9333	0.0800	$6.347 \times 10^{-4}$	0.262	0.212	$3.916 \times 10^{-3}$
0.9400	0.0800	$5.058 \times 10^{-4}$	0.267	0.205	$3.279 \times 10^{-3}$
0.9467	0.0800	$4.063 \times 10^{-4}$	0.270	0.199	$3.218 \times 10^{-3}$
0.9533	0.0800	$3.131 \times 10^{-4}$	0.266	0.196	$4.107 \times 10^{-3}$
0.9600	0.0800	$2.378 \times 10^{-4}$	0.258	0.193	$5.227 \times 10^{-3}$
0.9667	0.0800	$1.714 \times 10^{-4}$	0.247	0.184	$5.998 \times 10^{-3}$
0.9733	0.0800	$1.229 \times 10^{-4}$	0.227	0.172	$6.577 \times 10^{-3}$
0.9800	0.0800	$1.003 \times 10^{-4}$	0.214	0.161	$6.747 \times 10^{-3}$
0.9867	0.0800	$8.542 \times 10^{-5}$	0.203	0.153	$6.630 \times 10^{-3}$
0.9933	0.0800	$8.175 \times 10^{-5}$	0.197	0.148	$6.819 \times 10^{-3}$
1.0000	0.0800	$7.370 \times 10^{-5}$	0.189	0.141	$6.791 \times 10^{-3}$
0.6667	0.0867	$2.628 \times 10^{-4}$	0.334	$8.888 \times 10^{-2}$	$9.929 \times 10^{-2}$
0.6733	0.0867	$2.759 \times 10^{-4}$	0.285	$6.765 \times 10^{-2}$	$1.089 \times 10^{-1}$
0.6800	0.0867	$2.925 \times 10^{-4}$	0.222	$4.039 \times 10^{-2}$	$1.218 \times 10^{-1}$
0.6867	0.0867	$3.254 \times 10^{-4}$	0.149	$-7.878 \times 10^{-3}$	$1.434 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6933	0.0867	$3.636 \times 10^{-4}$	$7.462 \times 10^{-2}$	$-8.301 \times 10^{-2}$	$1.637 \times 10^{-1}$
0.7000	0.0867	$4.301 \times 10^{-4}$	$1.184 \times 10^{-2}$	-0.171	$1.835 \times 10^{-1}$
0.7067	0.0867	$5.370 \times 10^{-4}$	$-2.416 \times 10^{-2}$	-0.225	$1.938 \times 10^{-1}$
0.7133	0.0867	$7.209 \times 10^{-4}$	$-2.680 \times 10^{-2}$	-0.229	$1.977 \times 10^{-1}$
0.7200	0.0867	$8.870 \times 10^{-4}$	$-1.901 \times 10^{-2}$	-0.187	$1.872 \times 10^{-1}$
0.7267	0.0867	$9.030 \times 10^{-4}$	$-1.802 \times 10^{-2}$	-0.110	$1.764 \times 10^{-1}$
0.7333	0.0867	$8.968 \times 10^{-4}$	$-4.201 \times 10^{-2}$	$1.245 \times 10^{-2}$	$1.659 \times 10^{-1}$
0.7400	0.0867	$1.106 \times 10^{-3}$	$-9.197 \times 10^{-2}$	0.147	$1.510 \times 10^{-1}$
0.7467	0.0867	$1.701 \times 10^{-3}$	-0.143	0.231	$1.094 \times 10^{-1}$
0.7533	0.0867	$2.258 \times 10^{-3}$	-0.176	0.259	$5.826 \times 10^{-2}$
0.7600	0.0867	$2.248 \times 10^{-3}$	-0.188	0.266	$3.080 \times 10^{-2}$
0.7667	0.0867	$1.961 \times 10^{-3}$	-0.194	0.269	$1.746 \times 10^{-2}$
0.7733	0.0867	$1.963 \times 10^{-3}$	-0.190	0.275	$1.446 \times 10^{-2}$
0.7800	0.0867	$2.195 \times 10^{-3}$	-0.178	0.283	$1.603 \times 10^{-2}$
0.7867	0.0867	$2.514 \times 10^{-3}$	-0.162	0.293	$1.888 \times 10^{-2}$
0.7933	0.0867	$2.902 \times 10^{-3}$	-0.143	0.302	$2.244 \times 10^{-2}$
0.8000	0.0867	$3.259 \times 10^{-3}$	-0.123	0.310	$2.631 \times 10^{-2}$
0.8067	0.0867	$3.706 \times 10^{-3}$	-0.101	0.317	$3.164 \times 10^{-2}$
0.8133	0.0867	$3.786 \times 10^{-3}$	$-7.894 \times 10^{-2}$	0.324	$3.338 \times 10^{-2}$
0.8200	0.0867	$3.776 \times 10^{-3}$	$-5.059 \times 10^{-2}$	0.324	$3.360 \times 10^{-2}$
0.8267	0.0867	$3.787 \times 10^{-3}$	$-2.398 \times 10^{-2}$	0.323	$3.377 \times 10^{-2}$
0.8333	0.0867	$3.746 \times 10^{-3}$	$-2.046 \times 10^{-3}$	0.323	$3.344 \times 10^{-2}$
0.8400	0.0867	$3.680 \times 10^{-3}$	$2.466 \times 10^{-2}$	0.324	$3.293 \times 10^{-2}$
0.8467	0.0867	$3.797 \times 10^{-3}$	$5.022 \times 10^{-2}$	0.324	$3.379 \times 10^{-2}$
0.8533	0.0867	$3.743 \times 10^{-3}$	$8.051 \times 10^{-2}$	0.323	$3.301 \times 10^{-2}$
0.8600	0.0867	$3.729 \times 10^{-3}$	0.101	0.317	$3.164 \times 10^{-2}$
0.8667	0.0867	$3.277 \times 10^{-3}$	0.123	0.310	$2.642 \times 10^{-2}$
0.8733	0.0867	$2.808 \times 10^{-3}$	0.144	0.301	$2.171 \times 10^{-2}$
0.8800	0.0867	$2.491 \times 10^{-3}$	0.162	0.292	$1.847 \times 10^{-2}$
0.8867	0.0867	$2.199 \times 10^{-3}$	0.178	0.284	$1.577 \times 10^{-2}$
0.8933	0.0867	$1.897 \times 10^{-3}$	0.192	0.275	$1.308 \times 10^{-2}$
0.9000	0.0867	$1.660 \times 10^{-3}$	0.205	0.266	$1.094 \times 10^{-2}$
0.9067	0.0867	$1.419 \times 10^{-3}$	0.216	0.256	$9.073 \times 10^{-3}$
0.9133	0.0867	$1.210 \times 10^{-3}$	0.227	0.248	$7.555 \times 10^{-3}$
0.9200	0.0867	$1.034 \times 10^{-3}$	0.237	0.239	$6.275 \times 10^{-3}$
0.9267	0.0867	$8.796 \times 10^{-4}$	0.246	0.230	$5.181 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9333	0.0867	$7.179 \times 10^{-4}$	0.254	0.222	$4.166 \times 10^{-3}$
0.9400	0.0867	$5.788 \times 10^{-4}$	0.261	0.214	$3.342 \times 10^{-3}$
0.9467	0.0867	$4.705 \times 10^{-4}$	0.266	0.207	$2.860 \times 10^{-3}$
0.9533	0.0867	$3.772 \times 10^{-4}$	0.266	0.204	$2.832 \times 10^{-3}$
0.9600	0.0867	$3.197 \times 10^{-4}$	0.263	0.201	$3.737 \times 10^{-3}$
0.9667	0.0867	$2.576 \times 10^{-4}$	0.257	0.199	$4.876 \times 10^{-3}$
0.9733	0.0867	$1.788 \times 10^{-4}$	0.244	0.191	$5.853 \times 10^{-3}$
0.9800	0.0867	$1.306 \times 10^{-4}$	0.233	0.181	$6.129 \times 10^{-3}$
0.9867	0.0867	$1.037 \times 10^{-4}$	0.222	0.173	$6.086 \times 10^{-3}$
0.9933	0.0867	$9.389 \times 10^{-5}$	0.215	0.167	$6.130 \times 10^{-3}$
1.0000	0.0867	$8.040 \times 10^{-5}$	0.205	0.159	$6.168 \times 10^{-3}$
0.6667	0.0933	$2.815 \times 10^{-4}$	0.435	0.111	$1.007 \times 10^{-1}$
0.6733	0.0933	$2.865 \times 10^{-4}$	0.383	$9.958 \times 10^{-2}$	$1.083 \times 10^{-1}$
0.6800	0.0933	$3.081 \times 10^{-4}$	0.313	$8.298 \times 10^{-2}$	$1.248 \times 10^{-1}$
0.6867	0.0933	$3.454 \times 10^{-4}$	0.223	$4.445 \times 10^{-2}$	$1.515 \times 10^{-1}$
0.6933	0.0933	$3.965 \times 10^{-4}$	0.128	$-2.729 \times 10^{-2}$	$1.839 \times 10^{-1}$
0.7000	0.0933	$4.627 \times 10^{-4}$	$3.802 \times 10^{-2}$	-0.123	$2.103 \times 10^{-1}$
0.7067	0.0933	$5.928 \times 10^{-4}$	$-2.154 \times 10^{-2}$	-0.195	$2.324 \times 10^{-1}$
0.7133	0.0933	$8.366 \times 10^{-4}$	$-3.602 \times 10^{-2}$	-0.205	$2.437 \times 10^{-1}$
0.7200	0.0933	$1.063 \times 10^{-3}$	$-3.169 \times 10^{-2}$	-0.169	$2.268 \times 10^{-1}$
0.7267	0.0933	$1.119 \times 10^{-3}$	$-2.992 \times 10^{-2}$	$-8.865 \times 10^{-2}$	$2.122 \times 10^{-1}$
0.7333	0.0933	$1.143 \times 10^{-3}$	$-5.138 \times 10^{-2}$	$4.015 \times 10^{-2}$	$2.023 \times 10^{-1}$
0.7400	0.0933	$1.544 \times 10^{-3}$	$-9.476 \times 10^{-2}$	0.173	$1.808 \times 10^{-1}$
0.7467	0.0933	$2.247 \times 10^{-3}$	-0.142	0.247	$1.123 \times 10^{-1}$
0.7533	0.0933	$2.268 \times 10^{-3}$	-0.175	0.267	$4.378 \times 10^{-2}$
0.7600	0.0933	$1.931 \times 10^{-3}$	-0.188	0.270	$2.012 \times 10^{-2}$
0.7667	0.0933	$1.757 \times 10^{-3}$	-0.190	0.274	$1.325 \times 10^{-2}$
0.7733	0.0933	$1.869 \times 10^{-3}$	-0.183	0.280	$1.299 \times 10^{-2}$
0.7800	0.0933	$2.088 \times 10^{-3}$	-0.169	0.289	$1.472 \times 10^{-2}$
0.7867	0.0933	$2.399 \times 10^{-3}$	-0.153	0.297	$1.728 \times 10^{-2}$
0.7933	0.0933	$2.656 \times 10^{-3}$	-0.135	0.306	$1.970 \times 10^{-2}$
0.8000	0.0933	$3.010 \times 10^{-3}$	-0.116	0.313	$2.307 \times 10^{-2}$
0.8067	0.0933	$3.274 \times 10^{-3}$	$-9.499 \times 10^{-2}$	0.320	$2.643 \times 10^{-2}$
0.8133	0.0933	$3.629 \times 10^{-3}$	$-7.232 \times 10^{-2}$	0.326	$3.016 \times 10^{-2}$
0.8200	0.0933	$3.754 \times 10^{-3}$	$-4.900 \times 10^{-2}$	0.330	$3.224 \times 10^{-2}$
0.8267	0.0933	$3.614 \times 10^{-3}$	$-2.457 \times 10^{-2}$	0.332	$3.149 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8333	0.0933	$3.318 \times 10^{-3}$	$-1.768 \times 10^{-3}$	0.332	$2.942 \times 10^{-2}$
0.8400	0.0933	$3.654 \times 10^{-3}$	$2.530 \times 10^{-2}$	0.332	$3.189 \times 10^{-2}$
0.8467	0.0933	$3.679 \times 10^{-3}$	$4.871 \times 10^{-2}$	0.330	$3.137 \times 10^{-2}$
0.8533	0.0933	$3.619 \times 10^{-3}$	$7.222 \times 10^{-2}$	0.326	$2.999 \times 10^{-2}$
0.8600	0.0933	$3.253 \times 10^{-3}$	$9.477 \times 10^{-2}$	0.320	$2.604 \times 10^{-2}$
0.8667	0.0933	$2.948 \times 10^{-3}$	0.116	0.313	$2.266 \times 10^{-2}$
0.8733	0.0933	$2.639 \times 10^{-3}$	0.136	0.306	$1.948 \times 10^{-2}$
0.8800	0.0933	$2.292 \times 10^{-3}$	0.153	0.297	$1.635 \times 10^{-2}$
0.8867	0.0933	$2.082 \times 10^{-3}$	0.169	0.289	$1.435 \times 10^{-2}$
0.8933	0.0933	$1.846 \times 10^{-3}$	0.184	0.281	$1.237 \times 10^{-2}$
0.9000	0.0933	$1.629 \times 10^{-3}$	0.196	0.272	$1.051 \times 10^{-2}$
0.9067	0.0933	$1.409 \times 10^{-3}$	0.208	0.264	$8.771 \times 10^{-3}$
0.9133	0.0933	$1.228 \times 10^{-3}$	0.219	0.255	$7.348 \times 10^{-3}$
0.9200	0.0933	$1.048 \times 10^{-3}$	0.228	0.247	$6.143 \times 10^{-3}$
0.9267	0.0933	$9.066 \times 10^{-4}$	0.238	0.239	$5.161 \times 10^{-3}$
0.9333	0.0933	$7.834 \times 10^{-4}$	0.246	0.231	$4.331 \times 10^{-3}$
0.9400	0.0933	$6.462 \times 10^{-4}$	0.254	0.223	$3.524 \times 10^{-3}$
0.9467	0.0933	$5.250 \times 10^{-4}$	0.260	0.215	$2.833 \times 10^{-3}$
0.9533	0.0933	$4.018 \times 10^{-4}$	0.265	0.208	$2.451 \times 10^{-3}$
0.9600	0.0933	$3.481 \times 10^{-4}$	0.265	0.205	$2.935 \times 10^{-3}$
0.9667	0.0933	$2.994 \times 10^{-4}$	0.260	0.203	$4.081 \times 10^{-3}$
0.9733	0.0933	$2.027 \times 10^{-4}$	0.247	0.195	$5.638 \times 10^{-3}$
0.9800	0.0933	$1.522 \times 10^{-4}$	0.238	0.188	$6.084 \times 10^{-3}$
0.9867	0.0933	$1.149 \times 10^{-4}$	0.227	0.178	$6.067 \times 10^{-3}$
0.9933	0.0933	$9.382 \times 10^{-5}$	0.217	0.170	$5.953 \times 10^{-3}$
1.0000	0.0933	$7.996 \times 10^{-5}$	0.207	0.161	$6.000 \times 10^{-3}$
0.6667	0.1000	$3.050 \times 10^{-4}$	0.539	0.135	$9.911 \times 10^{-2}$
0.6733	0.1000	$3.073 \times 10^{-4}$	0.493	0.131	$1.060 \times 10^{-1}$
0.6800	0.1000	$3.272 \times 10^{-4}$	0.424	0.124	$1.243 \times 10^{-1}$
0.6867	0.1000	$3.660 \times 10^{-4}$	0.319	0.102	$1.555 \times 10^{-1}$
0.6933	0.1000	$4.321 \times 10^{-4}$	0.200	$4.380 \times 10^{-2}$	$2.025 \times 10^{-1}$
0.7000	0.1000	$5.082 \times 10^{-4}$	$8.273 \times 10^{-2}$	$-5.374 \times 10^{-2}$	$2.421 \times 10^{-1}$
0.7067	0.1000	$6.567 \times 10^{-4}$	$-7.683 \times 10^{-3}$	-0.143	$2.798 \times 10^{-1}$
0.7133	0.1000	$9.504 \times 10^{-4}$	$-4.473 \times 10^{-2}$	-0.171	$2.992 \times 10^{-1}$
0.7200	0.1000	$1.322 \times 10^{-3}$	$-4.660 \times 10^{-2}$	-0.143	$2.890 \times 10^{-1}$
0.7267	0.1000	$1.478 \times 10^{-3}$	$-4.519 \times 10^{-2}$	$-7.096 \times 10^{-2}$	$2.751 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7333	0.1000	$1.567 \times 10^{-3}$	$-6.015 \times 10^{-2}$	$5.306 \times 10^{-2}$	$2.577 \times 10^{-1}$
0.7400	0.1000	$2.158 \times 10^{-3}$	$-9.193 \times 10^{-2}$	0.185	$2.245 \times 10^{-1}$
0.7467	0.1000	$2.569 \times 10^{-3}$	-0.134	0.256	$1.142 \times 10^{-1}$
0.7533	0.1000	$2.069 \times 10^{-3}$	-0.176	0.272	$3.140 \times 10^{-2}$
0.7600	0.1000	$1.685 \times 10^{-3}$	-0.187	0.274	$1.410 \times 10^{-2}$
0.7667	0.1000	$1.644 \times 10^{-3}$	-0.185	0.279	$1.129 \times 10^{-2}$
0.7733	0.1000	$1.784 \times 10^{-3}$	-0.175	0.286	$1.189 \times 10^{-2}$
0.7800	0.1000	$1.994 \times 10^{-3}$	-0.161	0.294	$1.342 \times 10^{-2}$
0.7867	0.1000	$2.251 \times 10^{-3}$	-0.145	0.302	$1.557 \times 10^{-2}$
0.7933	0.1000	$2.424 \times 10^{-3}$	-0.128	0.309	$1.727 \times 10^{-2}$
0.8000	0.1000	$2.722 \times 10^{-3}$	-0.109	0.316	$2.008 \times 10^{-2}$
0.8067	0.1000	$2.962 \times 10^{-3}$	$-8.948 \times 10^{-2}$	0.322	$2.262 \times 10^{-2}$
0.8133	0.1000	$3.169 \times 10^{-3}$	$-6.779 \times 10^{-2}$	0.327	$2.466 \times 10^{-2}$
0.8200	0.1000	$3.443 \times 10^{-3}$	$-4.495 \times 10^{-2}$	0.331	$2.761 \times 10^{-2}$
0.8267	0.1000	$3.529 \times 10^{-3}$	$-2.243 \times 10^{-2}$	0.334	$2.861 \times 10^{-2}$
0.8333	0.1000	$3.597 \times 10^{-3}$	$-7.534 \times 10^{-5}$	0.334	$3.005 \times 10^{-2}$
0.8400	0.1000	$3.573 \times 10^{-3}$	$2.181 \times 10^{-2}$	0.333	$2.895 \times 10^{-2}$
0.8467	0.1000	$3.436 \times 10^{-3}$	$4.525 \times 10^{-2}$	0.332	$2.737 \times 10^{-2}$
0.8533	0.1000	$3.149 \times 10^{-3}$	$6.785 \times 10^{-2}$	0.328	$2.455 \times 10^{-2}$
0.8600	0.1000	$2.963 \times 10^{-3}$	$8.934 \times 10^{-2}$	0.322	$2.236 \times 10^{-2}$
0.8667	0.1000	$2.677 \times 10^{-3}$	0.109	0.316	$1.970 \times 10^{-2}$
0.8733	0.1000	$2.464 \times 10^{-3}$	0.128	0.310	$1.752 \times 10^{-2}$
0.8800	0.1000	$2.158 \times 10^{-3}$	0.145	0.302	$1.489 \times 10^{-2}$
0.8867	0.1000	$1.946 \times 10^{-3}$	0.161	0.294	$1.293 \times 10^{-2}$
0.8933	0.1000	$1.776 \times 10^{-3}$	0.175	0.286	$1.148 \times 10^{-2}$
0.9000	0.1000	$1.575 \times 10^{-3}$	0.188	0.278	$9.887 \times 10^{-3}$
0.9067	0.1000	$1.407 \times 10^{-3}$	0.199	0.270	$8.523 \times 10^{-3}$
0.9133	0.1000	$1.232 \times 10^{-3}$	0.210	0.262	$7.215 \times 10^{-3}$
0.9200	0.1000	$1.074 \times 10^{-3}$	0.220	0.254	$6.083 \times 10^{-3}$
0.9267	0.1000	$9.161 \times 10^{-4}$	0.230	0.247	$5.019 \times 10^{-3}$
0.9333	0.1000	$8.037 \times 10^{-4}$	0.238	0.239	$4.295 \times 10^{-3}$
0.9400	0.1000	$6.989 \times 10^{-4}$	0.246	0.231	$3.646 \times 10^{-3}$
0.9467	0.1000	$5.874 \times 10^{-4}$	0.253	0.224	$2.998 \times 10^{-3}$
0.9533	0.1000	$4.507 \times 10^{-4}$	0.259	0.217	$2.317 \times 10^{-3}$
0.9600	0.1000	$3.852 \times 10^{-4}$	0.263	0.212	$2.181 \times 10^{-3}$
0.9667	0.1000	$3.462 \times 10^{-4}$	0.262	0.209	$2.637 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9733	0.1000	$2.929 \times 10^{-4}$	0.256	0.207	$3.916 \times 10^{-3}$
0.9800	0.1000	$2.413 \times 10^{-4}$	0.250	0.203	$5.093 \times 10^{-3}$
0.9867	0.1000	$1.791 \times 10^{-4}$	0.240	0.194	$6.012 \times 10^{-3}$
0.9933	0.1000	$1.305 \times 10^{-4}$	0.227	0.182	$6.464 \times 10^{-3}$
1.0000	0.1000	$9.962 \times 10^{-5}$	0.217	0.172	$6.143 \times 10^{-3}$
0.6667	0.1067	$3.585 \times 10^{-4}$	0.654	0.161	$9.936 \times 10^{-2}$
0.6733	0.1067	$3.493 \times 10^{-4}$	0.614	0.158	$1.033 \times 10^{-1}$
0.6800	0.1067	$3.542 \times 10^{-4}$	0.553	0.157	$1.168 \times 10^{-1}$
0.6867	0.1067	$3.940 \times 10^{-4}$	0.452	0.151	$1.523 \times 10^{-1}$
0.6933	0.1067	$4.654 \times 10^{-4}$	0.307	0.115	$2.096 \times 10^{-1}$
0.7000	0.1067	$5.547 \times 10^{-4}$	0.160	$3.077 \times 10^{-2}$	$2.725 \times 10^{-1}$
0.7067	0.1067	$7.178 \times 10^{-4}$	$2.430 \times 10^{-2}$	$-7.545 \times 10^{-2}$	$3.374 \times 10^{-1}$
0.7133	0.1067	$1.052 \times 10^{-3}$	$-4.747 \times 10^{-2}$	-0.131	$3.735 \times 10^{-1}$
0.7200	0.1067	$1.622 \times 10^{-3}$	$-6.245 \times 10^{-2}$	-0.117	$3.726 \times 10^{-1}$
0.7267	0.1067	$2.035 \times 10^{-3}$	$-6.225 \times 10^{-2}$	$-5.494 \times 10^{-2}$	$3.612 \times 10^{-1}$
0.7333	0.1067	$2.331 \times 10^{-3}$	$-6.921 \times 10^{-2}$	$5.111 \times 10^{-2}$	$3.626 \times 10^{-1}$
0.7400	0.1067	$3.146 \times 10^{-3}$	$-8.123 \times 10^{-2}$	0.170	$3.422 \times 10^{-1}$
0.7467	0.1067	$2.996 \times 10^{-3}$	-0.118	0.242	$1.668 \times 10^{-1}$
0.7533	0.1067	$1.856 \times 10^{-3}$	-0.170	0.264	$4.273 \times 10^{-2}$
0.7600	0.1067	$1.519 \times 10^{-3}$	-0.185	0.276	$1.307 \times 10^{-2}$
0.7667	0.1067	$1.554 \times 10^{-3}$	-0.179	0.284	$1.008 \times 10^{-2}$
0.7733	0.1067	$1.696 \times 10^{-3}$	-0.167	0.291	$1.068 \times 10^{-2}$
0.7800	0.1067	$1.917 \times 10^{-3}$	-0.153	0.299	$1.254 \times 10^{-2}$
0.7867	0.1067	$2.060 \times 10^{-3}$	-0.138	0.305	$1.374 \times 10^{-2}$
0.7933	0.1067	$2.270 \times 10^{-3}$	-0.121	0.312	$1.551 \times 10^{-2}$
0.8000	0.1067	$2.471 \times 10^{-3}$	-0.104	0.319	$1.735 \times 10^{-2}$
0.8067	0.1067	$2.687 \times 10^{-3}$	$-8.443 \times 10^{-2}$	0.324	$1.936 \times 10^{-2}$
0.8133	0.1067	$2.812 \times 10^{-3}$	$-6.366 \times 10^{-2}$	0.329	$2.063 \times 10^{-2}$
0.8200	0.1067	$3.008 \times 10^{-3}$	$-4.217 \times 10^{-2}$	0.332	$2.266 \times 10^{-2}$
0.8267	0.1067	$3.144 \times 10^{-3}$	$-2.104 \times 10^{-2}$	0.334	$2.392 \times 10^{-2}$
0.8333	0.1067	$3.203 \times 10^{-3}$	$-4.991 \times 10^{-4}$	0.335	$2.494 \times 10^{-2}$
0.8400	0.1067	$3.158 \times 10^{-3}$	$2.022 \times 10^{-2}$	0.334	$2.404 \times 10^{-2}$
0.8467	0.1067	$3.029 \times 10^{-3}$	$4.263 \times 10^{-2}$	0.333	$2.260 \times 10^{-2}$
0.8533	0.1067	$2.797 \times 10^{-3}$	$6.381 \times 10^{-2}$	0.329	$2.055 \times 10^{-2}$
0.8600	0.1067	$2.697 \times 10^{-3}$	$8.469 \times 10^{-2}$	0.324	$1.925 \times 10^{-2}$
0.8667	0.1067	$2.467 \times 10^{-3}$	0.104	0.319	$1.726 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.8733	0.1067	$2.243 \times 10^{-3}$	0.122	0.313	$1.532 \times 10^{-2}$
0.8800	0.1067	$2.043 \times 10^{-3}$	0.138	0.306	$1.357 \times 10^{-2}$
0.8867	0.1067	$1.818 \times 10^{-3}$	0.153	0.298	$1.176 \times 10^{-2}$
0.8933	0.1067	$1.684 \times 10^{-3}$	0.167	0.291	$1.052 \times 10^{-2}$
0.9000	0.1067	$1.522 \times 10^{-3}$	0.181	0.284	$9.262 \times 10^{-3}$
0.9067	0.1067	$1.370 \times 10^{-3}$	0.192	0.276	$8.061 \times 10^{-3}$
0.9133	0.1067	$1.221 \times 10^{-3}$	0.202	0.269	$6.945 \times 10^{-3}$
0.9200	0.1067	$1.071 \times 10^{-3}$	0.212	0.261	$5.892 \times 10^{-3}$
0.9267	0.1067	$9.417 \times 10^{-4}$	0.222	0.254	$5.013 \times 10^{-3}$
0.9333	0.1067	$8.110 \times 10^{-4}$	0.231	0.246	$4.217 \times 10^{-3}$
0.9400	0.1067	$7.158 \times 10^{-4}$	0.238	0.239	$3.613 \times 10^{-3}$
0.9467	0.1067	$6.279 \times 10^{-4}$	0.246	0.232	$3.087 \times 10^{-3}$
0.9533	0.1067	$5.018 \times 10^{-4}$	0.251	0.226	$2.404 \times 10^{-3}$
0.9600	0.1067	$4.213 \times 10^{-4}$	0.257	0.220	$2.047 \times 10^{-3}$
0.9667	0.1067	$3.648 \times 10^{-4}$	0.261	0.215	$1.910 \times 10^{-3}$
0.9733	0.1067	$3.362 \times 10^{-4}$	0.259	0.212	$2.662 \times 10^{-3}$
0.9800	0.1067	$3.009 \times 10^{-4}$	0.254	0.210	$3.846 \times 10^{-3}$
0.9867	0.1067	$2.470 \times 10^{-4}$	0.248	0.207	$5.090 \times 10^{-3}$
0.9933	0.1067	$1.843 \times 10^{-4}$	0.239	0.199	$5.817 \times 10^{-3}$
1.0000	0.1067	$1.366 \times 10^{-4}$	0.230	0.190	$5.883 \times 10^{-3}$
0.6667	0.1133	$4.473 \times 10^{-4}$	0.756	0.186	$9.761 \times 10^{-2}$
0.6733	0.1133	$4.225 \times 10^{-4}$	0.729	0.182	$1.000 \times 10^{-1}$
0.6800	0.1133	$4.125 \times 10^{-4}$	0.685	0.182	$1.088 \times 10^{-1}$
0.6867	0.1133	$4.305 \times 10^{-4}$	0.605	0.186	$1.347 \times 10^{-1}$
0.6933	0.1133	$5.047 \times 10^{-4}$	0.459	0.183	$2.013 \times 10^{-1}$
0.7000	0.1133	$6.185 \times 10^{-4}$	0.279	0.126	$2.970 \times 10^{-1}$
0.7067	0.1133	$7.684 \times 10^{-4}$	0.106	$1.747 \times 10^{-2}$	$3.862 \times 10^{-1}$
0.7133	0.1133	$1.119 \times 10^{-3}$	$-2.463 \times 10^{-2}$	$-7.042 \times 10^{-2}$	$4.614 \times 10^{-1}$
0.7200	0.1133	$1.922 \times 10^{-3}$	$-7.247 \times 10^{-2}$	$-7.886 \times 10^{-2}$	$4.976 \times 10^{-1}$
0.7267	0.1133	$2.844 \times 10^{-3}$	$-8.141 \times 10^{-2}$	$-3.373 \times 10^{-2}$	$5.015 \times 10^{-1}$
0.7333	0.1133	$3.708 \times 10^{-3}$	$-8.948 \times 10^{-2}$	$4.348 \times 10^{-2}$	$5.325 \times 10^{-1}$
0.7400	0.1133	$4.947 \times 10^{-3}$	$-8.428 \times 10^{-2}$	0.120	$6.037 \times 10^{-1}$
0.7467	0.1133	$4.882 \times 10^{-3}$	$-8.233 \times 10^{-2}$	0.145	$5.422 \times 10^{-1}$
0.7533	0.1133	$2.868 \times 10^{-3}$	-0.115	0.158	$2.850 \times 10^{-1}$
0.7600	0.1133	$1.779 \times 10^{-3}$	-0.148	0.221	$1.116 \times 10^{-1}$
0.7667	0.1133	$1.550 \times 10^{-3}$	-0.165	0.276	$3.013 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7733	0.1133	$1.624 \times 10^{-3}$	-0.160	0.296	$1.009 \times 10^{-2}$
0.7800	0.1133	$1.805 \times 10^{-3}$	-0.146	0.302	$1.145 \times 10^{-2}$
0.7867	0.1133	$1.904 \times 10^{-3}$	-0.131	0.309	$1.233 \times 10^{-2}$
0.7933	0.1133	$2.118 \times 10^{-3}$	-0.115	0.315	$1.392 \times 10^{-2}$
0.8000	0.1133	$2.284 \times 10^{-3}$	$-9.824 \times 10^{-2}$	0.321	$1.527 \times 10^{-2}$
0.8067	0.1133	$2.417 \times 10^{-3}$	$-8.005 \times 10^{-2}$	0.326	$1.656 \times 10^{-2}$
0.8133	0.1133	$2.533 \times 10^{-3}$	$-6.032 \times 10^{-2}$	0.330	$1.761 \times 10^{-2}$
0.8200	0.1133	$2.683 \times 10^{-3}$	$-3.981 \times 10^{-2}$	0.333	$1.900 \times 10^{-2}$
0.8267	0.1133	$2.797 \times 10^{-3}$	$-1.974 \times 10^{-2}$	0.335	$2.010 \times 10^{-2}$
0.8333	0.1133	$2.866 \times 10^{-3}$	$-7.092 \times 10^{-4}$	0.335	$2.110 \times 10^{-2}$
0.8400	0.1133	$2.801 \times 10^{-3}$	$1.876 \times 10^{-2}$	0.335	$2.021 \times 10^{-2}$
0.8467	0.1133	$2.672 \times 10^{-3}$	$4.016 \times 10^{-2}$	0.334	$1.884 \times 10^{-2}$
0.8533	0.1133	$2.551 \times 10^{-3}$	$6.057 \times 10^{-2}$	0.330	$1.759 \times 10^{-2}$
0.8600	0.1133	$2.411 \times 10^{-3}$	$7.993 \times 10^{-2}$	0.326	$1.636 \times 10^{-2}$
0.8667	0.1133	$2.279 \times 10^{-3}$	$9.831 \times 10^{-2}$	0.321	$1.528 \times 10^{-2}$
0.8733	0.1133	$2.067 \times 10^{-3}$	0.116	0.315	$1.339 \times 10^{-2}$
0.8800	0.1133	$1.936 \times 10^{-3}$	0.132	0.309	$1.243 \times 10^{-2}$
0.8867	0.1133	$1.719 \times 10^{-3}$	0.146	0.302	$1.076 \times 10^{-2}$
0.8933	0.1133	$1.583 \times 10^{-3}$	0.160	0.295	$9.580 \times 10^{-3}$
0.9000	0.1133	$1.471 \times 10^{-3}$	0.173	0.288	$8.645 \times 10^{-3}$
0.9067	0.1133	$1.329 \times 10^{-3}$	0.185	0.281	$7.646 \times 10^{-3}$
0.9133	0.1133	$1.200 \times 10^{-3}$	0.196	0.274	$6.667 \times 10^{-3}$
0.9200	0.1133	$1.075 \times 10^{-3}$	0.205	0.267	$5.769 \times 10^{-3}$
0.9267	0.1133	$9.434 \times 10^{-4}$	0.215	0.260	$4.915 \times 10^{-3}$
0.9333	0.1133	$8.343 \times 10^{-4}$	0.223	0.253	$4.206 \times 10^{-3}$
0.9400	0.1133	$7.176 \times 10^{-4}$	0.232	0.246	$3.530 \times 10^{-3}$
0.9467	0.1133	$6.394 \times 10^{-4}$	0.239	0.239	$3.048 \times 10^{-3}$
0.9533	0.1133	$5.228 \times 10^{-4}$	0.247	0.231	$2.441 \times 10^{-3}$
0.9600	0.1133	$4.457 \times 10^{-4}$	0.253	0.225	$2.068 \times 10^{-3}$
0.9667	0.1133	$3.844 \times 10^{-4}$	0.258	0.219	$1.852 \times 10^{-3}$
0.9733	0.1133	$3.476 \times 10^{-4}$	0.259	0.216	$1.926 \times 10^{-3}$
0.9800	0.1133	$3.219 \times 10^{-4}$	0.257	0.214	$2.605 \times 10^{-3}$
0.9867	0.1133	$2.881 \times 10^{-4}$	0.251	0.213	$3.813 \times 10^{-3}$
0.9933	0.1133	$2.351 \times 10^{-4}$	0.244	0.210	$4.840 \times 10^{-3}$
1.0000	0.1133	$1.822 \times 10^{-4}$	0.239	0.203	$5.338 \times 10^{-3}$
0.6667	0.1200	$5.903 \times 10^{-4}$	0.833	0.205	$9.536 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.6733	0.1200	$5.547 \times 10^{-4}$	0.816	0.200	$9.779 \times 10^{-2}$
0.6800	0.1200	$5.206 \times 10^{-4}$	0.790	0.200	$1.019 \times 10^{-1}$
0.6867	0.1200	$5.034 \times 10^{-4}$	0.749	0.204	$1.143 \times 10^{-1}$
0.6933	0.1200	$5.492 \times 10^{-4}$	0.642	0.220	$1.660 \times 10^{-1}$
0.7000	0.1200	$6.836 \times 10^{-4}$	0.459	0.210	$2.817 \times 10^{-1}$
0.7067	0.1200	$8.553 \times 10^{-4}$	0.245	0.131	$4.286 \times 10^{-1}$
0.7133	0.1200	$1.122 \times 10^{-3}$	$5.330 \times 10^{-2}$	$2.127 \times 10^{-2}$	$5.378 \times 10^{-1}$
0.7200	0.1200	$1.917 \times 10^{-3}$	$-5.167 \times 10^{-2}$	$-2.662 \times 10^{-2}$	$6.306 \times 10^{-1}$
0.7267	0.1200	$3.298 \times 10^{-3}$	$-7.821 \times 10^{-2}$	$-6.164 \times 10^{-3}$	$6.647 \times 10^{-1}$
0.7333	0.1200	$4.676 \times 10^{-3}$	$-8.375 \times 10^{-2}$	$4.504 \times 10^{-2}$	$6.891 \times 10^{-1}$
0.7400	0.1200	$5.654 \times 10^{-3}$	$-7.564 \times 10^{-2}$	$9.271 \times 10^{-2}$	$7.401 \times 10^{-1}$
0.7467	0.1200	$5.654 \times 10^{-3}$	$-5.705 \times 10^{-2}$	$9.833 \times 10^{-2}$	$7.478 \times 10^{-1}$
0.7533	0.1200	$4.581 \times 10^{-3}$	$-5.648 \times 10^{-2}$	$8.202 \times 10^{-2}$	$6.304 \times 10^{-1}$
0.7600	0.1200	$3.627 \times 10^{-3}$	$-6.602 \times 10^{-2}$	0.104	$4.735 \times 10^{-1}$
0.7667	0.1200	$2.478 \times 10^{-3}$	$-9.556 \times 10^{-2}$	0.182	$2.379 \times 10^{-1}$
0.7733	0.1200	$1.803 \times 10^{-3}$	-0.131	0.266	$7.018 \times 10^{-2}$
0.7800	0.1200	$1.702 \times 10^{-3}$	-0.138	0.303	$1.490 \times 10^{-2}$
0.7867	0.1200	$1.800 \times 10^{-3}$	-0.126	0.312	$1.034 \times 10^{-2}$
0.7933	0.1200	$1.967 \times 10^{-3}$	-0.110	0.318	$1.239 \times 10^{-2}$
0.8000	0.1200	$2.114 \times 10^{-3}$	$-9.350 \times 10^{-2}$	0.323	$1.366 \times 10^{-2}$
0.8067	0.1200	$2.190 \times 10^{-3}$	$-7.605 \times 10^{-2}$	0.327	$1.422 \times 10^{-2}$
0.8133	0.1200	$2.328 \times 10^{-3}$	$-5.733 \times 10^{-2}$	0.331	$1.535 \times 10^{-2}$
0.8200	0.1200	$2.388 \times 10^{-3}$	$-3.746 \times 10^{-2}$	0.334	$1.602 \times 10^{-2}$
0.8267	0.1200	$2.510 \times 10^{-3}$	$-1.814 \times 10^{-2}$	0.335	$1.711 \times 10^{-2}$
0.8333	0.1200	$2.600 \times 10^{-3}$	$-8.476 \times 10^{-4}$	0.336	$1.813 \times 10^{-2}$
0.8400	0.1200	$2.506 \times 10^{-3}$	$1.728 \times 10^{-2}$	0.335	$1.716 \times 10^{-2}$
0.8467	0.1200	$2.379 \times 10^{-3}$	$3.757 \times 10^{-2}$	0.334	$1.587 \times 10^{-2}$
0.8533	0.1200	$2.339 \times 10^{-3}$	$5.773 \times 10^{-2}$	0.331	$1.536 \times 10^{-2}$
0.8600	0.1200	$2.171 \times 10^{-3}$	$7.602 \times 10^{-2}$	0.327	$1.399 \times 10^{-2}$
0.8667	0.1200	$2.087 \times 10^{-3}$	$9.351 \times 10^{-2}$	0.323	$1.334 \times 10^{-2}$
0.8733	0.1200	$1.940 \times 10^{-3}$	0.110	0.317	$1.216 \times 10^{-2}$
0.8800	0.1200	$1.812 \times 10^{-3}$	0.126	0.312	$1.118 \times 10^{-2}$
0.8867	0.1200	$1.644 \times 10^{-3}$	0.140	0.306	$9.906 \times 10^{-3}$
0.8933	0.1200	$1.489 \times 10^{-3}$	0.153	0.299	$8.762 \times 10^{-3}$
0.9000	0.1200	$1.397 \times 10^{-3}$	0.166	0.293	$8.032 \times 10^{-3}$
0.9067	0.1200	$1.288 \times 10^{-3}$	0.178	0.286	$7.194 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9133	0.1200	$1.170 \times 10^{-3}$	0.189	0.279	$6.368 \times 10^{-3}$
0.9200	0.1200	$1.069 \times 10^{-3}$	0.198	0.272	$5.632 \times 10^{-3}$
0.9267	0.1200	$9.445 \times 10^{-4}$	0.207	0.266	$4.821 \times 10^{-3}$
0.9333	0.1200	$8.361 \times 10^{-4}$	0.216	0.259	$4.114 \times 10^{-3}$
0.9400	0.1200	$7.430 \times 10^{-4}$	0.225	0.252	$3.547 \times 10^{-3}$
0.9467	0.1200	$6.445 \times 10^{-4}$	0.232	0.246	$2.999 \times 10^{-3}$
0.9533	0.1200	$5.306 \times 10^{-4}$	0.238	0.240	$2.393 \times 10^{-3}$
0.9600	0.1200	$4.795 \times 10^{-4}$	0.244	0.234	$2.131 \times 10^{-3}$
0.9667	0.1200	$4.231 \times 10^{-4}$	0.250	0.228	$1.854 \times 10^{-3}$
0.9733	0.1200	$3.631 \times 10^{-4}$	0.256	0.221	$1.669 \times 10^{-3}$
0.9800	0.1200	$3.289 \times 10^{-4}$	0.257	0.218	$1.834 \times 10^{-3}$
0.9867	0.1200	$3.041 \times 10^{-4}$	0.254	0.217	$2.507 \times 10^{-3}$
0.9933	0.1200	$2.728 \times 10^{-4}$	0.248	0.217	$3.622 \times 10^{-3}$
1.0000	0.1200	$2.332 \times 10^{-4}$	0.243	0.213	$4.579 \times 10^{-3}$
0.6667	0.1267	$7.231 \times 10^{-4}$	0.888	0.205	$8.465 \times 10^{-2}$
0.6733	0.1267	$7.108 \times 10^{-4}$	0.874	0.209	$9.087 \times 10^{-2}$
0.6800	0.1267	$6.909 \times 10^{-4}$	0.860	0.210	$9.679 \times 10^{-2}$
0.6867	0.1267	$6.526 \times 10^{-4}$	0.841	0.212	$1.025 \times 10^{-1}$
0.6933	0.1267	$6.445 \times 10^{-4}$	0.796	0.221	$1.230 \times 10^{-1}$
0.7000	0.1267	$7.425 \times 10^{-4}$	0.665	0.250	$2.149 \times 10^{-1}$
0.7067	0.1267	$9.423 \times 10^{-4}$	0.456	0.239	$4.015 \times 10^{-1}$
0.7133	0.1267	$1.156 \times 10^{-3}$	0.224	0.147	$5.809 \times 10^{-1}$
0.7200	0.1267	$1.619 \times 10^{-3}$	$2.928 \times 10^{-2}$	$4.955 \times 10^{-2}$	$7.017 \times 10^{-1}$
0.7267	0.1267	$2.825 \times 10^{-3}$	$-4.300 \times 10^{-2}$	$2.928 \times 10^{-2}$	$7.854 \times 10^{-1}$
0.7333	0.1267	$4.495 \times 10^{-3}$	$-5.602 \times 10^{-2}$	$4.901 \times 10^{-2}$	$7.899 \times 10^{-1}$
0.7400	0.1267	$5.362 \times 10^{-3}$	$-4.832 \times 10^{-2}$	$7.426 \times 10^{-2}$	$7.834 \times 10^{-1}$
0.7467	0.1267	$5.278 \times 10^{-3}$	$-3.697 \times 10^{-2}$	$7.779 \times 10^{-2}$	$7.497 \times 10^{-1}$
0.7533	0.1267	$4.857 \times 10^{-3}$	$-3.423 \times 10^{-2}$	$6.603 \times 10^{-2}$	$7.027 \times 10^{-1}$
0.7600	0.1267	$4.692 \times 10^{-3}$	$-3.406 \times 10^{-2}$	$6.786 \times 10^{-2}$	$6.728 \times 10^{-1}$
0.7667	0.1267	$4.344 \times 10^{-3}$	$-3.687 \times 10^{-2}$	$9.893 \times 10^{-2}$	$5.906 \times 10^{-1}$
0.7733	0.1267	$3.270 \times 10^{-3}$	$-4.924 \times 10^{-2}$	0.154	$3.837 \times 10^{-1}$
0.7800	0.1267	$2.096 \times 10^{-3}$	$-9.095 \times 10^{-2}$	0.245	$1.326 \times 10^{-1}$
0.7867	0.1267	$1.757 \times 10^{-3}$	-0.115	0.307	$2.360 \times 10^{-2}$
0.7933	0.1267	$1.828 \times 10^{-3}$	-0.105	0.320	$1.042 \times 10^{-2}$
0.8000	0.1267	$1.935 \times 10^{-3}$	$-8.908 \times 10^{-2}$	0.324	$1.180 \times 10^{-2}$
0.8067	0.1267	$2.005 \times 10^{-3}$	$-7.254 \times 10^{-2}$	0.328	$1.250 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.8133	0.1267	$2.119 \times 10^{-3}$	$-5.445 \times 10^{-2}$	0.332	$1.323 \times 10^{-2}$
0.8200	0.1267	$2.158 \times 10^{-3}$	$-3.550 \times 10^{-2}$	0.334	$1.374 \times 10^{-2}$
0.8267	0.1267	$2.269 \times 10^{-3}$	$-1.670 \times 10^{-2}$	0.336	$1.475 \times 10^{-2}$
0.8333	0.1267	$2.390 \times 10^{-3}$	$-8.372 \times 10^{-4}$	0.336	$1.583 \times 10^{-2}$
0.8400	0.1267	$2.263 \times 10^{-3}$	$1.574 \times 10^{-2}$	0.336	$1.473 \times 10^{-2}$
0.8467	0.1267	$2.142 \times 10^{-3}$	$3.565 \times 10^{-2}$	0.335	$1.354 \times 10^{-2}$
0.8533	0.1267	$2.113 \times 10^{-3}$	$5.483 \times 10^{-2}$	0.332	$1.317 \times 10^{-2}$
0.8600	0.1267	$1.989 \times 10^{-3}$	$7.247 \times 10^{-2}$	0.329	$1.222 \times 10^{-2}$
0.8667	0.1267	$1.917 \times 10^{-3}$	$8.911 \times 10^{-2}$	0.324	$1.175 \times 10^{-2}$
0.8733	0.1267	$1.826 \times 10^{-3}$	0.105	0.320	$1.100 \times 10^{-2}$
0.8800	0.1267	$1.672 \times 10^{-3}$	0.120	0.314	$9.945 \times 10^{-3}$
0.8867	0.1267	$1.590 \times 10^{-3}$	0.134	0.309	$9.248 \times 10^{-3}$
0.8933	0.1267	$1.420 \times 10^{-3}$	0.147	0.303	$8.122 \times 10^{-3}$
0.9000	0.1267	$1.312 \times 10^{-3}$	0.159	0.297	$7.339 \times 10^{-3}$
0.9067	0.1267	$1.239 \times 10^{-3}$	0.171	0.290	$6.745 \times 10^{-3}$
0.9133	0.1267	$1.135 \times 10^{-3}$	0.183	0.284	$6.021 \times 10^{-3}$
0.9200	0.1267	$1.042 \times 10^{-3}$	0.192	0.278	$5.369 \times 10^{-3}$
0.9267	0.1267	$9.521 \times 10^{-4}$	0.201	0.271	$4.749 \times 10^{-3}$
0.9333	0.1267	$8.354 \times 10^{-4}$	0.209	0.264	$4.032 \times 10^{-3}$
0.9400	0.1267	$7.464 \times 10^{-4}$	0.218	0.258	$3.486 \times 10^{-3}$
0.9467	0.1267	$6.653 \times 10^{-4}$	0.226	0.252	$3.014 \times 10^{-3}$
0.9533	0.1267	$5.310 \times 10^{-4}$	0.235	0.244	$2.357 \times 10^{-3}$
0.9600	0.1267	$4.834 \times 10^{-4}$	0.241	0.237	$2.114 \times 10^{-3}$
0.9667	0.1267	$4.324 \times 10^{-4}$	0.248	0.231	$1.859 \times 10^{-3}$
0.9733	0.1267	$3.876 \times 10^{-4}$	0.251	0.227	$1.647 \times 10^{-3}$
0.9800	0.1267	$3.425 \times 10^{-4}$	0.255	0.222	$1.542 \times 10^{-3}$
0.9867	0.1267	$3.050 \times 10^{-4}$	0.255	0.219	$1.976 \times 10^{-3}$
0.9933	0.1267	$2.744 \times 10^{-4}$	0.249	0.218	$3.060 \times 10^{-3}$
1.0000	0.1267	$2.501 \times 10^{-4}$	0.244	0.216	$4.158 \times 10^{-3}$
0.6667	0.1333	$7.073 \times 10^{-4}$	0.930	0.181	$6.078 \times 10^{-2}$
0.6733	0.1333	$7.570 \times 10^{-4}$	0.918	0.196	$7.146 \times 10^{-2}$
0.6800	0.1333	$7.920 \times 10^{-4}$	0.905	0.207	$8.173 \times 10^{-2}$
0.6867	0.1333	$7.965 \times 10^{-4}$	0.893	0.214	$8.983 \times 10^{-2}$
0.6933	0.1333	$7.923 \times 10^{-4}$	0.876	0.220	$9.987 \times 10^{-2}$
0.7000	0.1333	$8.182 \times 10^{-4}$	0.828	0.239	$1.354 \times 10^{-1}$
0.7067	0.1333	$1.000 \times 10^{-3}$	0.682	0.279	$2.771 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7133	0.1333	$1.296 \times 10^{-3}$	0.457	0.264	$5.477 \times 10^{-1}$
0.7200	0.1333	$1.501 \times 10^{-3}$	0.230	0.174	$7.326 \times 10^{-1}$
0.7267	0.1333	$2.021 \times 10^{-3}$	$6.609 \times 10^{-2}$	$9.659 \times 10^{-2}$	$8.165 \times 10^{-1}$
0.7333	0.1333	$3.224 \times 10^{-3}$	$1.085 \times 10^{-3}$	$7.174 \times 10^{-2}$	$8.540 \times 10^{-1}$
0.7400	0.1333	$4.368 \times 10^{-3}$	$-1.109 \times 10^{-2}$	$7.049 \times 10^{-2}$	$8.250 \times 10^{-1}$
0.7467	0.1333	$4.767 \times 10^{-3}$	$-1.081 \times 10^{-2}$	$6.635 \times 10^{-2}$	$7.744 \times 10^{-1}$
0.7533	0.1333	$4.668 \times 10^{-3}$	$-1.344 \times 10^{-2}$	$5.702 \times 10^{-2}$	$7.256 \times 10^{-1}$
0.7600	0.1333	$4.720 \times 10^{-3}$	$-1.769 \times 10^{-2}$	$5.633 \times 10^{-2}$	$7.069 \times 10^{-1}$
0.7667	0.1333	$4.875 \times 10^{-3}$	$-1.951 \times 10^{-2}$	$7.660 \times 10^{-2}$	$7.061 \times 10^{-1}$
0.7733	0.1333	$4.809 \times 10^{-3}$	$-1.511 \times 10^{-2}$	$9.868 \times 10^{-2}$	$6.628 \times 10^{-1}$
0.7800	0.1333	$3.957 \times 10^{-3}$	$-1.932 \times 10^{-2}$	0.139	$4.937 \times 10^{-1}$
0.7867	0.1333	$2.643 \times 10^{-3}$	$-4.950 \times 10^{-2}$	0.220	$2.216 \times 10^{-1}$
0.7933	0.1333	$1.883 \times 10^{-3}$	$-8.435 \times 10^{-2}$	0.298	$5.393 \times 10^{-2}$
0.8000	0.1333	$1.776 \times 10^{-3}$	$-8.478 \times 10^{-2}$	0.325	$1.156 \times 10^{-2}$
0.8067	0.1333	$1.861 \times 10^{-3}$	$-6.916 \times 10^{-2}$	0.329	$1.099 \times 10^{-2}$
0.8133	0.1333	$1.939 \times 10^{-3}$	$-5.188 \times 10^{-2}$	0.333	$1.153 \times 10^{-2}$
0.8200	0.1333	$1.970 \times 10^{-3}$	$-3.386 \times 10^{-2}$	0.335	$1.196 \times 10^{-2}$
0.8267	0.1333	$2.060 \times 10^{-3}$	$-1.534 \times 10^{-2}$	0.336	$1.281 \times 10^{-2}$
0.8333	0.1333	$2.188 \times 10^{-3}$	$-7.994 \times 10^{-4}$	0.336	$1.388 \times 10^{-2}$
0.8400	0.1333	$2.042 \times 10^{-3}$	$1.443 \times 10^{-2}$	0.336	$1.268 \times 10^{-2}$
0.8467	0.1333	$1.937 \times 10^{-3}$	$3.369 \times 10^{-2}$	0.335	$1.168 \times 10^{-2}$
0.8533	0.1333	$1.925 \times 10^{-3}$	$5.227 \times 10^{-2}$	0.333	$1.144 \times 10^{-2}$
0.8600	0.1333	$1.849 \times 10^{-3}$	$6.928 \times 10^{-2}$	0.330	$1.085 \times 10^{-2}$
0.8667	0.1333	$1.763 \times 10^{-3}$	$8.520 \times 10^{-2}$	0.326	$1.028 \times 10^{-2}$
0.8733	0.1333	$1.693 \times 10^{-3}$	0.100	0.321	$9.780 \times 10^{-3}$
0.8800	0.1333	$1.559 \times 10^{-3}$	0.115	0.316	$8.967 \times 10^{-3}$
0.8867	0.1333	$1.501 \times 10^{-3}$	0.128	0.311	$8.460 \times 10^{-3}$
0.8933	0.1333	$1.366 \times 10^{-3}$	0.141	0.305	$7.599 \times 10^{-3}$
0.9000	0.1333	$1.251 \times 10^{-3}$	0.153	0.300	$6.760 \times 10^{-3}$
0.9067	0.1333	$1.177 \times 10^{-3}$	0.165	0.294	$6.236 \times 10^{-3}$
0.9133	0.1333	$1.097 \times 10^{-3}$	0.176	0.288	$5.708 \times 10^{-3}$
0.9200	0.1333	$1.014 \times 10^{-3}$	0.186	0.282	$5.112 \times 10^{-3}$
0.9267	0.1333	$9.279 \times 10^{-4}$	0.195	0.276	$4.520 \times 10^{-3}$
0.9333	0.1333	$8.426 \times 10^{-4}$	0.203	0.269	$3.988 \times 10^{-3}$
0.9400	0.1333	$7.430 \times 10^{-4}$	0.211	0.263	$3.411 \times 10^{-3}$
0.9467	0.1333	$6.736 \times 10^{-4}$	0.219	0.257	$2.992 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9533	0.1333	$5.509 \times 10^{-4}$	0.226	0.251	$2.373 \times 10^{-3}$
0.9600	0.1333	$4.877 \times 10^{-4}$	0.233	0.245	$2.064 \times 10^{-3}$
0.9667	0.1333	$4.419 \times 10^{-4}$	0.240	0.239	$1.843 \times 10^{-3}$
0.9733	0.1333	$4.023 \times 10^{-4}$	0.246	0.233	$1.646 \times 10^{-3}$
0.9800	0.1333	$3.593 \times 10^{-4}$	0.251	0.228	$1.476 \times 10^{-3}$
0.9867	0.1333	$3.144 \times 10^{-4}$	0.253	0.224	$1.437 \times 10^{-3}$
0.9933	0.1333	$2.792 \times 10^{-4}$	0.252	0.222	$1.853 \times 10^{-3}$
1.0000	0.1333	$2.754 \times 10^{-4}$	0.248	0.222	$2.714 \times 10^{-3}$
0.6667	0.1400	$6.328 \times 10^{-4}$	0.956	0.147	$4.270 \times 10^{-2}$
0.6733	0.1400	$6.658 \times 10^{-4}$	0.949	0.159	$4.786 \times 10^{-2}$
0.6800	0.1400	$7.241 \times 10^{-4}$	0.939	0.175	$5.665 \times 10^{-2}$
0.6867	0.1400	$7.872 \times 10^{-4}$	0.929	0.191	$6.722 \times 10^{-2}$
0.6933	0.1400	$8.455 \times 10^{-4}$	0.918	0.204	$7.840 \times 10^{-2}$
0.7000	0.1400	$8.844 \times 10^{-4}$	0.902	0.218	$9.254 \times 10^{-2}$
0.7067	0.1400	$9.816 \times 10^{-4}$	0.849	0.249	$1.434 \times 10^{-1}$
0.7133	0.1400	$1.307 \times 10^{-3}$	0.687	0.305	$3.516 \times 10^{-1}$
0.7200	0.1400	$1.649 \times 10^{-3}$	0.481	0.297	$6.707 \times 10^{-1}$
0.7267	0.1400	$1.773 \times 10^{-3}$	0.281	0.214	$8.163 \times 10^{-1}$
0.7333	0.1400	$2.158 \times 10^{-3}$	0.126	0.137	$8.569 \times 10^{-1}$
0.7400	0.1400	$2.947 \times 10^{-3}$	$5.802 \times 10^{-2}$	$9.884 \times 10^{-2}$	$8.515 \times 10^{-1}$
0.7467	0.1400	$3.681 \times 10^{-3}$	$3.160 \times 10^{-2}$	$7.707 \times 10^{-2}$	$8.020 \times 10^{-1}$
0.7533	0.1400	$4.064 \times 10^{-3}$	$1.629 \times 10^{-2}$	$6.199 \times 10^{-2}$	$7.565 \times 10^{-1}$
0.7600	0.1400	$4.395 \times 10^{-3}$	$3.797 \times 10^{-3}$	$5.629 \times 10^{-2}$	$7.413 \times 10^{-1}$
0.7667	0.1400	$4.734 \times 10^{-3}$	$-1.358 \times 10^{-3}$	$6.673 \times 10^{-2}$	$7.392 \times 10^{-1}$
0.7733	0.1400	$4.968 \times 10^{-3}$	$-6.946 \times 10^{-4}$	$8.251 \times 10^{-2}$	$7.237 \times 10^{-1}$
0.7800	0.1400	$5.101 \times 10^{-3}$	$3.944 \times 10^{-3}$	0.102	$7.045 \times 10^{-1}$
0.7867	0.1400	$4.645 \times 10^{-3}$	$6.778 \times 10^{-3}$	0.131	$5.920 \times 10^{-1}$
0.7933	0.1400	$3.341 \times 10^{-3}$	$-1.057 \times 10^{-2}$	0.189	$3.475 \times 10^{-1}$
0.8000	0.1400	$2.161 \times 10^{-3}$	$-4.650 \times 10^{-2}$	0.271	$1.144 \times 10^{-1}$
0.8067	0.1400	$1.762 \times 10^{-3}$	$-6.024 \times 10^{-2}$	0.321	$2.593 \times 10^{-2}$
0.8133	0.1400	$1.764 \times 10^{-3}$	$-4.969 \times 10^{-2}$	0.334	$9.659 \times 10^{-3}$
0.8200	0.1400	$1.817 \times 10^{-3}$	$-3.229 \times 10^{-2}$	0.335	$1.053 \times 10^{-2}$
0.8267	0.1400	$1.900 \times 10^{-3}$	$-1.412 \times 10^{-2}$	0.336	$1.130 \times 10^{-2}$
0.8333	0.1400	$2.036 \times 10^{-3}$	$-5.680 \times 10^{-4}$	0.337	$1.234 \times 10^{-2}$
0.8400	0.1400	$1.882 \times 10^{-3}$	$1.330 \times 10^{-2}$	0.337	$1.114 \times 10^{-2}$
0.8467	0.1400	$1.774 \times 10^{-3}$	$3.192 \times 10^{-2}$	0.336	$1.020 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.8533	0.1400	$1.744 \times 10^{-3}$	$4.991 \times 10^{-2}$	0.334	$9.896 \times 10^{-3}$
0.8600	0.1400	$1.735 \times 10^{-3}$	$6.624 \times 10^{-2}$	0.330	$9.749 \times 10^{-3}$
0.8667	0.1400	$1.650 \times 10^{-3}$	$8.156 \times 10^{-2}$	0.327	$9.241 \times 10^{-3}$
0.8733	0.1400	$1.572 \times 10^{-3}$	$9.593 \times 10^{-2}$	0.323	$8.716 \times 10^{-3}$
0.8800	0.1400	$1.484 \times 10^{-3}$	0.110	0.318	$8.202 \times 10^{-3}$
0.8867	0.1400	$1.393 \times 10^{-3}$	0.123	0.314	$7.609 \times 10^{-3}$
0.8933	0.1400	$1.322 \times 10^{-3}$	0.136	0.308	$7.119 \times 10^{-3}$
0.9000	0.1400	$1.209 \times 10^{-3}$	0.147	0.303	$6.377 \times 10^{-3}$
0.9067	0.1400	$1.110 \times 10^{-3}$	0.159	0.297	$5.748 \times 10^{-3}$
0.9133	0.1400	$1.057 \times 10^{-3}$	0.170	0.292	$5.322 \times 10^{-3}$
0.9200	0.1400	$9.812 \times 10^{-4}$	0.180	0.286	$4.818 \times 10^{-3}$
0.9267	0.1400	$9.078 \times 10^{-4}$	0.189	0.280	$4.339 \times 10^{-3}$
0.9333	0.1400	$8.340 \times 10^{-4}$	0.197	0.274	$3.877 \times 10^{-3}$
0.9400	0.1400	$7.489 \times 10^{-4}$	0.205	0.268	$3.362 \times 10^{-3}$
0.9467	0.1400	$6.668 \times 10^{-4}$	0.213	0.262	$2.906 \times 10^{-3}$
0.9533	0.1400	$5.610 \times 10^{-4}$	0.220	0.257	$2.369 \times 10^{-3}$
0.9600	0.1400	$5.023 \times 10^{-4}$	0.227	0.251	$2.065 \times 10^{-3}$
0.9667	0.1400	$4.453 \times 10^{-4}$	0.233	0.246	$1.793 \times 10^{-3}$
0.9733	0.1400	$4.077 \times 10^{-4}$	0.240	0.239	$1.621 \times 10^{-3}$
0.9800	0.1400	$3.694 \times 10^{-4}$	0.246	0.234	$1.448 \times 10^{-3}$
0.9867	0.1400	$3.264 \times 10^{-4}$	0.250	0.229	$1.325 \times 10^{-3}$
0.9933	0.1400	$2.802 \times 10^{-4}$	0.251	0.225	$1.375 \times 10^{-3}$
1.0000	0.1400	$2.721 \times 10^{-4}$	0.249	0.224	$1.860 \times 10^{-3}$
0.6667	0.1467	$5.988 \times 10^{-4}$	0.966	0.135	$3.656 \times 10^{-2}$
0.6733	0.1467	$6.034 \times 10^{-4}$	0.964	0.137	$3.765 \times 10^{-2}$
0.6800	0.1467	$6.230 \times 10^{-4}$	0.961	0.143	$3.995 \times 10^{-2}$
0.6867	0.1467	$6.592 \times 10^{-4}$	0.955	0.153	$4.460 \times 10^{-2}$
0.6933	0.1467	$7.088 \times 10^{-4}$	0.947	0.168	$5.159 \times 10^{-2}$
0.7000	0.1467	$7.771 \times 10^{-4}$	0.938	0.185	$6.134 \times 10^{-2}$
0.7067	0.1467	$8.650 \times 10^{-4}$	0.923	0.205	$7.680 \times 10^{-2}$
0.7133	0.1467	$1.061 \times 10^{-3}$	0.860	0.256	$1.450 \times 10^{-1}$
0.7200	0.1467	$1.619 \times 10^{-3}$	0.693	0.335	$4.217 \times 10^{-1}$
0.7267	0.1467	$1.969 \times 10^{-3}$	0.518	0.323	$7.421 \times 10^{-1}$
0.7333	0.1467	$1.929 \times 10^{-3}$	0.356	0.250	$8.415 \times 10^{-1}$
0.7400	0.1467	$2.093 \times 10^{-3}$	0.208	0.175	$8.409 \times 10^{-1}$
0.7467	0.1467	$2.489 \times 10^{-3}$	0.117	0.121	$8.026 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7533	0.1467	$3.009 \times 10^{-3}$	$7.194 \times 10^{-2}$	$8.910 \times 10^{-2}$	$7.807 \times 10^{-1}$
0.7600	0.1467	$3.534 \times 10^{-3}$	$3.832 \times 10^{-2}$	$7.012 \times 10^{-2}$	$7.520 \times 10^{-1}$
0.7667	0.1467	$4.159 \times 10^{-3}$	$2.212 \times 10^{-2}$	$6.722 \times 10^{-2}$	$7.592 \times 10^{-1}$
0.7733	0.1467	$4.633 \times 10^{-3}$	$1.517 \times 10^{-2}$	$7.408 \times 10^{-2}$	$7.384 \times 10^{-1}$
0.7800	0.1467	$5.063 \times 10^{-3}$	$1.547 \times 10^{-2}$	$8.832 \times 10^{-2}$	$7.461 \times 10^{-1}$
0.7867	0.1467	$5.324 \times 10^{-3}$	$2.045 \times 10^{-2}$	0.105	$7.257 \times 10^{-1}$
0.7933	0.1467	$5.075 \times 10^{-3}$	$2.592 \times 10^{-2}$	0.126	$6.589 \times 10^{-1}$
0.8000	0.1467	$4.157 \times 10^{-3}$	$2.427 \times 10^{-2}$	0.155	$4.933 \times 10^{-1}$
0.8067	0.1467	$2.700 \times 10^{-3}$	$-1.880 \times 10^{-3}$	0.229	$2.245 \times 10^{-1}$
0.8133	0.1467	$1.863 \times 10^{-3}$	$-2.989 \times 10^{-2}$	0.305	$5.675 \times 10^{-2}$
0.8200	0.1467	$1.681 \times 10^{-3}$	$-2.845 \times 10^{-2}$	0.332	$1.456 \times 10^{-2}$
0.8267	0.1467	$1.736 \times 10^{-3}$	$-1.298 \times 10^{-2}$	0.336	$1.049 \times 10^{-2}$
0.8333	0.1467	$1.901 \times 10^{-3}$	$-5.011 \times 10^{-4}$	0.337	$1.112 \times 10^{-2}$
0.8400	0.1467	$1.733 \times 10^{-3}$	$1.227 \times 10^{-2}$	0.337	$9.879 \times 10^{-3}$
0.8467	0.1467	$1.620 \times 10^{-3}$	$3.034 \times 10^{-2}$	0.336	$8.923 \times 10^{-3}$
0.8533	0.1467	$1.608 \times 10^{-3}$	$4.770 \times 10^{-2}$	0.334	$8.740 \times 10^{-3}$
0.8600	0.1467	$1.604 \times 10^{-3}$	$6.348 \times 10^{-2}$	0.332	$8.652 \times 10^{-3}$
0.8667	0.1467	$1.533 \times 10^{-3}$	$7.813 \times 10^{-2}$	0.328	$8.243 \times 10^{-3}$
0.8733	0.1467	$1.473 \times 10^{-3}$	$9.216 \times 10^{-2}$	0.324	$7.882 \times 10^{-3}$
0.8800	0.1467	$1.406 \times 10^{-3}$	0.106	0.320	$7.513 \times 10^{-3}$
0.8867	0.1467	$1.294 \times 10^{-3}$	0.118	0.316	$6.805 \times 10^{-3}$
0.8933	0.1467	$1.262 \times 10^{-3}$	0.131	0.311	$6.612 \times 10^{-3}$
0.9000	0.1467	$1.161 \times 10^{-3}$	0.142	0.306	$5.946 \times 10^{-3}$
0.9067	0.1467	$1.064 \times 10^{-3}$	0.153	0.301	$5.374 \times 10^{-3}$
0.9133	0.1467	$1.004 \times 10^{-3}$	0.164	0.295	$4.942 \times 10^{-3}$
0.9200	0.1467	$9.460 \times 10^{-4}$	0.174	0.290	$4.545 \times 10^{-3}$
0.9267	0.1467	$8.846 \times 10^{-4}$	0.183	0.284	$4.135 \times 10^{-3}$
0.9333	0.1467	$8.132 \times 10^{-4}$	0.192	0.278	$3.698 \times 10^{-3}$
0.9400	0.1467	$7.487 \times 10^{-4}$	0.200	0.273	$3.306 \times 10^{-3}$
0.9467	0.1467	$6.704 \times 10^{-4}$	0.207	0.267	$2.854 \times 10^{-3}$
0.9533	0.1467	$5.585 \times 10^{-4}$	0.215	0.261	$2.306 \times 10^{-3}$
0.9600	0.1467	$5.084 \times 10^{-4}$	0.222	0.255	$2.071 \times 10^{-3}$
0.9667	0.1467	$4.582 \times 10^{-4}$	0.229	0.250	$1.820 \times 10^{-3}$
0.9733	0.1467	$4.119 \times 10^{-4}$	0.235	0.244	$1.598 \times 10^{-3}$
0.9800	0.1467	$3.736 \times 10^{-4}$	0.240	0.239	$1.429 \times 10^{-3}$
0.9867	0.1467	$3.319 \times 10^{-4}$	0.245	0.234	$1.265 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9933	0.1467	$2.809 \times 10^{-4}$	0.249	0.229	$1.150 \times 10^{-3}$
1.0000	0.1467	$2.664 \times 10^{-4}$	0.250	0.227	$1.330 \times 10^{-3}$
0.6667	0.1533	$6.081 \times 10^{-4}$	0.970	0.132	$3.610 \times 10^{-2}$
0.6733	0.1533	$6.103 \times 10^{-4}$	0.969	0.133	$3.642 \times 10^{-2}$
0.6800	0.1533	$6.117 \times 10^{-4}$	0.968	0.134	$3.676 \times 10^{-2}$
0.6867	0.1533	$6.161 \times 10^{-4}$	0.967	0.136	$3.742 \times 10^{-2}$
0.6933	0.1533	$6.265 \times 10^{-4}$	0.965	0.140	$3.897 \times 10^{-2}$
0.7000	0.1533	$6.500 \times 10^{-4}$	0.961	0.148	$4.190 \times 10^{-2}$
0.7067	0.1533	$6.955 \times 10^{-4}$	0.955	0.160	$4.764 \times 10^{-2}$
0.7133	0.1533	$7.717 \times 10^{-4}$	0.941	0.182	$6.019 \times 10^{-2}$
0.7200	0.1533	$1.041 \times 10^{-3}$	0.866	0.251	$1.397 \times 10^{-1}$
0.7267	0.1533	$1.760 \times 10^{-3}$	0.696	0.349	$4.430 \times 10^{-1}$
0.7333	0.1533	$2.214 \times 10^{-3}$	0.556	0.353	$7.655 \times 10^{-1}$
0.7400	0.1533	$2.067 \times 10^{-3}$	0.428	0.286	$8.274 \times 10^{-1}$
0.7467	0.1533	$2.003 \times 10^{-3}$	0.292	0.210	$8.140 \times 10^{-1}$
0.7533	0.1533	$2.192 \times 10^{-3}$	0.188	0.151	$7.942 \times 10^{-1}$
0.7600	0.1533	$2.589 \times 10^{-3}$	0.116	0.112	$7.835 \times 10^{-1}$
0.7667	0.1533	$3.209 \times 10^{-3}$	$6.989 \times 10^{-2}$	$8.827 \times 10^{-2}$	$7.813 \times 10^{-1}$
0.7733	0.1533	$3.903 \times 10^{-3}$	$4.219 \times 10^{-2}$	$8.088 \times 10^{-2}$	$7.709 \times 10^{-1}$
0.7800	0.1533	$4.533 \times 10^{-3}$	$3.273 \times 10^{-2}$	$8.362 \times 10^{-2}$	$7.590 \times 10^{-1}$
0.7867	0.1533	$5.025 \times 10^{-3}$	$3.139 \times 10^{-2}$	$9.505 \times 10^{-2}$	$7.408 \times 10^{-1}$
0.7933	0.1533	$5.276 \times 10^{-3}$	$3.614 \times 10^{-2}$	0.108	$7.263 \times 10^{-1}$
0.8000	0.1533	$5.274 \times 10^{-3}$	$4.412 \times 10^{-2}$	0.122	$6.817 \times 10^{-1}$
0.8067	0.1533	$4.723 \times 10^{-3}$	$4.928 \times 10^{-2}$	0.141	$5.823 \times 10^{-1}$
0.8133	0.1533	$3.572 \times 10^{-3}$	$3.896 \times 10^{-2}$	0.185	$3.718 \times 10^{-1}$
0.8200	0.1533	$2.294 \times 10^{-3}$	$1.344 \times 10^{-2}$	0.259	$1.453 \times 10^{-1}$
0.8267	0.1533	$1.736 \times 10^{-3}$	$-1.410 \times 10^{-3}$	0.318	$3.827 \times 10^{-2}$
0.8333	0.1533	$1.797 \times 10^{-3}$	$2.112 \times 10^{-4}$	0.336	$1.187 \times 10^{-2}$
0.8400	0.1533	$1.594 \times 10^{-3}$	$1.120 \times 10^{-2}$	0.337	$8.434 \times 10^{-3}$
0.8467	0.1533	$1.503 \times 10^{-3}$	$2.912 \times 10^{-2}$	0.337	$7.972 \times 10^{-3}$
0.8533	0.1533	$1.495 \times 10^{-3}$	$4.580 \times 10^{-2}$	0.335	$7.825 \times 10^{-3}$
0.8600	0.1533	$1.489 \times 10^{-3}$	$6.075 \times 10^{-2}$	0.332	$7.736 \times 10^{-3}$
0.8667	0.1533	$1.425 \times 10^{-3}$	$7.501 \times 10^{-2}$	0.329	$7.349 \times 10^{-3}$
0.8733	0.1533	$1.384 \times 10^{-3}$	$8.855 \times 10^{-2}$	0.326	$7.111 \times 10^{-3}$
0.8800	0.1533	$1.326 \times 10^{-3}$	0.102	0.322	$6.803 \times 10^{-3}$
0.8867	0.1533	$1.247 \times 10^{-3}$	0.114	0.317	$6.348 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8933	0.1533	$1.188 \times 10^{-3}$	0.126	0.313	$6.013 \times 10^{-3}$
0.9000	0.1533	$1.122 \times 10^{-3}$	0.138	0.308	$5.590 \times 10^{-3}$
0.9067	0.1533	$1.033 \times 10^{-3}$	0.148	0.303	$5.047 \times 10^{-3}$
0.9133	0.1533	$9.584 \times 10^{-4}$	0.158	0.298	$4.607 \times 10^{-3}$
0.9200	0.1533	$9.082 \times 10^{-4}$	0.168	0.293	$4.280 \times 10^{-3}$
0.9267	0.1533	$8.495 \times 10^{-4}$	0.178	0.288	$3.880 \times 10^{-3}$
0.9333	0.1533	$7.947 \times 10^{-4}$	0.187	0.282	$3.540 \times 10^{-3}$
0.9400	0.1533	$7.366 \times 10^{-4}$	0.194	0.277	$3.190 \times 10^{-3}$
0.9467	0.1533	$6.721 \times 10^{-4}$	0.202	0.271	$2.825 \times 10^{-3}$
0.9533	0.1533	$5.601 \times 10^{-4}$	0.208	0.267	$2.276 \times 10^{-3}$
0.9600	0.1533	$5.096 \times 10^{-4}$	0.215	0.261	$2.017 \times 10^{-3}$
0.9667	0.1533	$4.653 \times 10^{-4}$	0.222	0.256	$1.802 \times 10^{-3}$
0.9733	0.1533	$4.198 \times 10^{-4}$	0.229	0.249	$1.594 \times 10^{-3}$
0.9800	0.1533	$3.771 \times 10^{-4}$	0.235	0.244	$1.411 \times 10^{-3}$
0.9867	0.1533	$3.348 \times 10^{-4}$	0.240	0.239	$1.239 \times 10^{-3}$
0.9933	0.1533	$2.841 \times 10^{-4}$	0.245	0.234	$1.071 \times 10^{-3}$
1.0000	0.1533	$2.651 \times 10^{-4}$	0.248	0.230	$1.076 \times 10^{-3}$
0.6667	0.1600	$5.617 \times 10^{-4}$	0.970	0.130	$3.275 \times 10^{-2}$
0.6733	0.1600	$5.794 \times 10^{-4}$	0.970	0.131	$3.392 \times 10^{-2}$
0.6800	0.1600	$5.917 \times 10^{-4}$	0.969	0.133	$3.477 \times 10^{-2}$
0.6867	0.1600	$5.957 \times 10^{-4}$	0.969	0.133	$3.504 \times 10^{-2}$
0.6933	0.1600	$6.025 \times 10^{-4}$	0.969	0.135	$3.572 \times 10^{-2}$
0.7000	0.1600	$6.110 \times 10^{-4}$	0.968	0.136	$3.655 \times 10^{-2}$
0.7067	0.1600	$6.170 \times 10^{-4}$	0.967	0.139	$3.734 \times 10^{-2}$
0.7133	0.1600	$6.400 \times 10^{-4}$	0.964	0.144	$4.001 \times 10^{-2}$
0.7200	0.1600	$6.794 \times 10^{-4}$	0.954	0.160	$4.744 \times 10^{-2}$
0.7267	0.1600	$9.542 \times 10^{-4}$	0.868	0.242	$1.290 \times 10^{-1}$
0.7333	0.1600	$1.810 \times 10^{-3}$	0.692	0.368	$4.522 \times 10^{-1}$
0.7400	0.1600	$2.325 \times 10^{-3}$	0.578	0.379	$7.487 \times 10^{-1}$
0.7467	0.1600	$2.137 \times 10^{-3}$	0.483	0.318	$7.987 \times 10^{-1}$
0.7533	0.1600	$1.975 \times 10^{-3}$	0.364	0.248	$7.811 \times 10^{-1}$
0.7600	0.1600	$2.043 \times 10^{-3}$	0.246	0.186	$7.822 \times 10^{-1}$
0.7667	0.1600	$2.364 \times 10^{-3}$	0.158	0.137	$7.905 \times 10^{-1}$
0.7733	0.1600	$2.925 \times 10^{-3}$	$9.944 \times 10^{-2}$	0.108	$7.842 \times 10^{-1}$
0.7800	0.1600	$3.682 \times 10^{-3}$	$6.539 \times 10^{-2}$	$9.346 \times 10^{-2}$	$7.821 \times 10^{-1}$
0.7867	0.1600	$4.374 \times 10^{-3}$	$5.222 \times 10^{-2}$	$9.308 \times 10^{-2}$	$7.606 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7933	0.1600	$4.866 \times 10^{-3}$	$4.854 \times 10^{-2}$	0.100	$7.359 \times 10^{-1}$
0.8000	0.1600	$5.161 \times 10^{-3}$	$5.138 \times 10^{-2}$	0.109	$7.085 \times 10^{-1}$
0.8067	0.1600	$5.220 \times 10^{-3}$	$5.938 \times 10^{-2}$	0.122	$6.751 \times 10^{-1}$
0.8133	0.1600	$5.114 \times 10^{-3}$	$6.661 \times 10^{-2}$	0.134	$6.274 \times 10^{-1}$
0.8200	0.1600	$4.373 \times 10^{-3}$	$6.934 \times 10^{-2}$	0.153	$5.002 \times 10^{-1}$
0.8267	0.1600	$3.171 \times 10^{-3}$	$5.861 \times 10^{-2}$	0.201	$2.990 \times 10^{-1}$
0.8333	0.1600	$2.212 \times 10^{-3}$	$2.959 \times 10^{-2}$	0.283	$1.046 \times 10^{-1}$
0.8400	0.1600	$1.578 \times 10^{-3}$	$1.793 \times 10^{-2}$	0.325	$2.456 \times 10^{-2}$
0.8467	0.1600	$1.391 \times 10^{-3}$	$2.859 \times 10^{-2}$	0.336	$8.289 \times 10^{-3}$
0.8533	0.1600	$1.388 \times 10^{-3}$	$4.380 \times 10^{-2}$	0.335	$6.893 \times 10^{-3}$
0.8600	0.1600	$1.376 \times 10^{-3}$	$5.816 \times 10^{-2}$	0.333	$6.906 \times 10^{-3}$
0.8667	0.1600	$1.326 \times 10^{-3}$	$7.213 \times 10^{-2}$	0.330	$6.600 \times 10^{-3}$
0.8733	0.1600	$1.312 \times 10^{-3}$	$8.531 \times 10^{-2}$	0.327	$6.540 \times 10^{-3}$
0.8800	0.1600	$1.249 \times 10^{-3}$	$9.805 \times 10^{-2}$	0.323	$6.216 \times 10^{-3}$
0.8867	0.1600	$1.194 \times 10^{-3}$	0.110	0.319	$5.881 \times 10^{-3}$
0.8933	0.1600	$1.121 \times 10^{-3}$	0.122	0.315	$5.490 \times 10^{-3}$
0.9000	0.1600	$1.080 \times 10^{-3}$	0.133	0.311	$5.229 \times 10^{-3}$
0.9067	0.1600	$9.978 \times 10^{-4}$	0.144	0.306	$4.758 \times 10^{-3}$
0.9133	0.1600	$9.213 \times 10^{-4}$	0.153	0.301	$4.303 \times 10^{-3}$
0.9200	0.1600	$8.665 \times 10^{-4}$	0.163	0.296	$3.984 \times 10^{-3}$
0.9267	0.1600	$8.239 \times 10^{-4}$	0.172	0.291	$3.696 \times 10^{-3}$
0.9333	0.1600	$7.690 \times 10^{-4}$	0.181	0.286	$3.354 \times 10^{-3}$
0.9400	0.1600	$7.159 \times 10^{-4}$	0.190	0.281	$3.057 \times 10^{-3}$
0.9467	0.1600	$6.664 \times 10^{-4}$	0.197	0.275	$2.743 \times 10^{-3}$
0.9533	0.1600	$5.606 \times 10^{-4}$	0.205	0.269	$2.258 \times 10^{-3}$
0.9600	0.1600	$5.100 \times 10^{-4}$	0.212	0.264	$1.999 \times 10^{-3}$
0.9667	0.1600	$4.671 \times 10^{-4}$	0.219	0.258	$1.786 \times 10^{-3}$
0.9733	0.1600	$4.285 \times 10^{-4}$	0.224	0.254	$1.602 \times 10^{-3}$
0.9800	0.1600	$3.869 \times 10^{-4}$	0.230	0.249	$1.411 \times 10^{-3}$
0.9867	0.1600	$3.380 \times 10^{-4}$	0.236	0.244	$1.215 \times 10^{-3}$
0.9933	0.1600	$2.873 \times 10^{-4}$	0.241	0.239	$1.031 \times 10^{-3}$
1.0000	0.1600	$2.667 \times 10^{-4}$	0.244	0.235	$9.894 \times 10^{-4}$
0.6667	0.1667	$3.971 \times 10^{-4}$	0.980	$9.026 \times 10^{-2}$	$2.039 \times 10^{-2}$
0.6733	0.1667	$4.349 \times 10^{-4}$	0.978	0.102	$2.314 \times 10^{-2}$
0.6800	0.1667	$4.808 \times 10^{-4}$	0.976	0.113	$2.657 \times 10^{-2}$
0.6867	0.1667	$5.228 \times 10^{-4}$	0.973	0.121	$2.944 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.6933	0.1667	$5.565 \times 10^{-4}$	0.972	0.128	$3.188 \times 10^{-2}$
0.7000	0.1667	$5.755 \times 10^{-4}$	0.972	0.130	$3.322 \times 10^{-2}$
0.7067	0.1667	$5.918 \times 10^{-4}$	0.971	0.131	$3.461 \times 10^{-2}$
0.7133	0.1667	$5.989 \times 10^{-4}$	0.970	0.134	$3.536 \times 10^{-2}$
0.7200	0.1667	$6.157 \times 10^{-4}$	0.969	0.137	$3.692 \times 10^{-2}$
0.7267	0.1667	$6.384 \times 10^{-4}$	0.960	0.148	$4.235 \times 10^{-2}$
0.7333	0.1667	$8.670 \times 10^{-4}$	0.875	0.229	$1.151 \times 10^{-1}$
0.7400	0.1667	$1.759 \times 10^{-3}$	0.692	0.373	$4.385 \times 10^{-1}$
0.7467	0.1667	$2.391 \times 10^{-3}$	0.597	0.398	$7.263 \times 10^{-1}$
0.7533	0.1667	$2.206 \times 10^{-3}$	0.521	0.345	$7.648 \times 10^{-1}$
0.7600	0.1667	$2.011 \times 10^{-3}$	0.416	0.282	$7.750 \times 10^{-1}$
0.7667	0.1667	$2.015 \times 10^{-3}$	0.298	0.216	$7.803 \times 10^{-1}$
0.7733	0.1667	$2.224 \times 10^{-3}$	0.197	0.167	$7.864 \times 10^{-1}$
0.7800	0.1667	$2.714 \times 10^{-3}$	0.132	0.129	$7.862 \times 10^{-1}$
0.7867	0.1667	$3.366 \times 10^{-3}$	$9.139 \times 10^{-2}$	0.110	$7.676 \times 10^{-1}$
0.7933	0.1667	$4.100 \times 10^{-3}$	$7.310 \times 10^{-2}$	0.104	$7.461 \times 10^{-1}$
0.8000	0.1667	$4.639 \times 10^{-3}$	$6.697 \times 10^{-2}$	0.106	$7.163 \times 10^{-1}$
0.8067	0.1667	$4.952 \times 10^{-3}$	$6.766 \times 10^{-2}$	0.113	$6.823 \times 10^{-1}$
0.8133	0.1667	$5.095 \times 10^{-3}$	$7.272 \times 10^{-2}$	0.121	$6.538 \times 10^{-1}$
0.8200	0.1667	$5.079 \times 10^{-3}$	$7.931 \times 10^{-2}$	0.130	$6.180 \times 10^{-1}$
0.8267	0.1667	$4.927 \times 10^{-3}$	$8.629 \times 10^{-2}$	0.141	$5.708 \times 10^{-1}$
0.8333	0.1667	$4.269 \times 10^{-3}$	$8.409 \times 10^{-2}$	0.173	$4.431 \times 10^{-1}$
0.8400	0.1667	$2.752 \times 10^{-3}$	$7.304 \times 10^{-2}$	0.220	$2.241 \times 10^{-1}$
0.8467	0.1667	$1.703 \times 10^{-3}$	$5.443 \times 10^{-2}$	0.281	$8.026 \times 10^{-2}$
0.8533	0.1667	$1.385 \times 10^{-3}$	$4.885 \times 10^{-2}$	0.321	$2.239 \times 10^{-2}$
0.8600	0.1667	$1.308 \times 10^{-3}$	$5.706 \times 10^{-2}$	0.332	$7.864 \times 10^{-3}$
0.8667	0.1667	$1.253 \times 10^{-3}$	$6.967 \times 10^{-2}$	0.331	$6.158 \times 10^{-3}$
0.8733	0.1667	$1.230 \times 10^{-3}$	$8.238 \times 10^{-2}$	0.328	$5.899 \times 10^{-3}$
0.8800	0.1667	$1.179 \times 10^{-3}$	$9.458 \times 10^{-2}$	0.324	$5.653 \times 10^{-3}$
0.8867	0.1667	$1.133 \times 10^{-3}$	0.106	0.321	$5.414 \times 10^{-3}$
0.8933	0.1667	$1.055 \times 10^{-3}$	0.118	0.317	$4.970 \times 10^{-3}$
0.9000	0.1667	$1.028 \times 10^{-3}$	0.128	0.313	$4.853 \times 10^{-3}$
0.9067	0.1667	$9.669 \times 10^{-4}$	0.139	0.308	$4.481 \times 10^{-3}$
0.9133	0.1667	$8.956 \times 10^{-4}$	0.149	0.303	$4.109 \times 10^{-3}$
0.9200	0.1667	$8.336 \times 10^{-4}$	0.158	0.299	$3.723 \times 10^{-3}$
0.9267	0.1667	$7.946 \times 10^{-4}$	0.167	0.294	$3.479 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9333	0.1667	$7.425 \times 10^{-4}$	0.176	0.289	$3.172 \times 10^{-3}$
0.9400	0.1667	$6.955 \times 10^{-4}$	0.184	0.284	$2.919 \times 10^{-3}$
0.9467	0.1667	$6.524 \times 10^{-4}$	0.192	0.279	$2.642 \times 10^{-3}$
0.9533	0.1667	$5.983 \times 10^{-4}$	0.199	0.274	$2.363 \times 10^{-3}$
0.9600	0.1667	$5.416 \times 10^{-4}$	0.206	0.269	$2.074 \times 10^{-3}$
0.9667	0.1667	$4.876 \times 10^{-4}$	0.212	0.264	$1.832 \times 10^{-3}$
0.9733	0.1667	$4.313 \times 10^{-4}$	0.218	0.259	$1.578 \times 10^{-3}$
0.9800	0.1667	$3.919 \times 10^{-4}$	0.225	0.254	$1.402 \times 10^{-3}$
0.9867	0.1667	$3.522 \times 10^{-4}$	0.230	0.249	$1.234 \times 10^{-3}$
0.9933	0.1667	$3.124 \times 10^{-4}$	0.236	0.244	$1.086 \times 10^{-3}$
1.0000	0.1667	$2.896 \times 10^{-4}$	0.241	0.239	$1.012 \times 10^{-3}$
0.6667	0.1733	$2.600 \times 10^{-4}$	0.993	$2.758 \times 10^{-2}$	$1.019 \times 10^{-2}$
0.6733	0.1733	$2.851 \times 10^{-4}$	0.991	$4.047 \times 10^{-2}$	$1.197 \times 10^{-2}$
0.6800	0.1733	$3.064 \times 10^{-4}$	0.988	$5.354 \times 10^{-2}$	$1.367 \times 10^{-2}$
0.6867	0.1733	$3.351 \times 10^{-4}$	0.986	$6.712 \times 10^{-2}$	$1.590 \times 10^{-2}$
0.6933	0.1733	$3.723 \times 10^{-4}$	0.982	$8.121 \times 10^{-2}$	$1.869 \times 10^{-2}$
0.7000	0.1733	$4.148 \times 10^{-4}$	0.979	$9.534 \times 10^{-2}$	$2.183 \times 10^{-2}$
0.7067	0.1733	$4.594 \times 10^{-4}$	0.976	0.107	$2.502 \times 10^{-2}$
0.7133	0.1733	$4.992 \times 10^{-4}$	0.974	0.116	$2.789 \times 10^{-2}$
0.7200	0.1733	$5.357 \times 10^{-4}$	0.972	0.123	$3.057 \times 10^{-2}$
0.7267	0.1733	$5.660 \times 10^{-4}$	0.971	0.129	$3.298 \times 10^{-2}$
0.7333	0.1733	$5.981 \times 10^{-4}$	0.964	0.139	$3.870 \times 10^{-2}$
0.7400	0.1733	$8.522 \times 10^{-4}$	0.868	0.231	$1.197 \times 10^{-1}$
0.7467	0.1733	$1.711 \times 10^{-3}$	0.695	0.379	$4.245 \times 10^{-1}$
0.7533	0.1733	$2.348 \times 10^{-3}$	0.607	0.410	$6.892 \times 10^{-1}$
0.7600	0.1733	$2.257 \times 10^{-3}$	0.545	0.370	$7.423 \times 10^{-1}$
0.7667	0.1733	$2.040 \times 10^{-3}$	0.453	0.314	$7.499 \times 10^{-1}$
0.7733	0.1733	$1.980 \times 10^{-3}$	0.344	0.252	$7.571 \times 10^{-1}$
0.7800	0.1733	$2.129 \times 10^{-3}$	0.242	0.195	$7.724 \times 10^{-1}$
0.7867	0.1733	$2.478 \times 10^{-3}$	0.168	0.154	$7.666 \times 10^{-1}$
0.7933	0.1733	$3.076 \times 10^{-3}$	0.121	0.129	$7.474 \times 10^{-1}$
0.8000	0.1733	$3.734 \times 10^{-3}$	$9.581 \times 10^{-2}$	0.117	$7.176 \times 10^{-1}$
0.8067	0.1733	$4.307 \times 10^{-3}$	$8.598 \times 10^{-2}$	0.114	$6.908 \times 10^{-1}$
0.8133	0.1733	$4.670 \times 10^{-3}$	$8.346 \times 10^{-2}$	0.117	$6.503 \times 10^{-1}$
0.8200	0.1733	$4.884 \times 10^{-3}$	$8.688 \times 10^{-2}$	0.123	$6.234 \times 10^{-1}$
0.8267	0.1733	$4.980 \times 10^{-3}$	$9.086 \times 10^{-2}$	0.131	$6.022 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8333	0.1733	$5.093 \times 10^{-3}$	$9.664 \times 10^{-2}$	0.144	$5.799 \times 10^{-1}$
0.8400	0.1733	$4.603 \times 10^{-3}$	0.107	0.154	$4.877 \times 10^{-1}$
0.8467	0.1733	$3.500 \times 10^{-3}$	0.108	0.171	$3.476 \times 10^{-1}$
0.8533	0.1733	$2.492 \times 10^{-3}$	$9.639 \times 10^{-2}$	0.213	$2.010 \times 10^{-1}$
0.8600	0.1733	$1.710 \times 10^{-3}$	$8.245 \times 10^{-2}$	0.268	$8.362 \times 10^{-2}$
0.8667	0.1733	$1.305 \times 10^{-3}$	$7.696 \times 10^{-2}$	0.308	$2.879 \times 10^{-2}$
0.8733	0.1733	$1.171 \times 10^{-3}$	$8.144 \times 10^{-2}$	0.324	$9.474 \times 10^{-3}$
0.8800	0.1733	$1.114 \times 10^{-3}$	$9.135 \times 10^{-2}$	0.326	$4.850 \times 10^{-3}$
0.8867	0.1733	$1.076 \times 10^{-3}$	0.103	0.322	$4.979 \times 10^{-3}$
0.8933	0.1733	$1.013 \times 10^{-3}$	0.114	0.318	$4.583 \times 10^{-3}$
0.9000	0.1733	$9.707 \times 10^{-4}$	0.124	0.314	$4.450 \times 10^{-3}$
0.9067	0.1733	$9.285 \times 10^{-4}$	0.135	0.310	$4.196 \times 10^{-3}$
0.9133	0.1733	$8.678 \times 10^{-4}$	0.144	0.306	$3.857 \times 10^{-3}$
0.9200	0.1733	$8.046 \times 10^{-4}$	0.154	0.301	$3.519 \times 10^{-3}$
0.9267	0.1733	$7.546 \times 10^{-4}$	0.162	0.297	$3.229 \times 10^{-3}$
0.9333	0.1733	$7.187 \times 10^{-4}$	0.171	0.292	$3.002 \times 10^{-3}$
0.9400	0.1733	$6.769 \times 10^{-4}$	0.179	0.287	$2.761 \times 10^{-3}$
0.9467	0.1733	$6.361 \times 10^{-4}$	0.187	0.283	$2.537 \times 10^{-3}$
0.9533	0.1733	$5.931 \times 10^{-4}$	0.194	0.278	$2.300 \times 10^{-3}$
0.9600	0.1733	$5.463 \times 10^{-4}$	0.201	0.273	$2.063 \times 10^{-3}$
0.9667	0.1733	$4.934 \times 10^{-4}$	0.207	0.268	$1.821 \times 10^{-3}$
0.9733	0.1733	$4.239 \times 10^{-4}$	0.214	0.263	$1.517 \times 10^{-3}$
0.9800	0.1733	$3.949 \times 10^{-4}$	0.219	0.258	$1.395 \times 10^{-3}$
0.9867	0.1733	$3.608 \times 10^{-4}$	0.226	0.253	$1.241 \times 10^{-3}$
0.9933	0.1733	$3.251 \times 10^{-4}$	0.232	0.248	$1.101 \times 10^{-3}$
1.0000	0.1733	$2.963 \times 10^{-4}$	0.236	0.244	$1.000 \times 10^{-3}$
0.6667	0.1800	$2.325 \times 10^{-4}$	0.999	$3.847 \times 10^{-3}$	$7.847 \times 10^{-3}$
0.6733	0.1800	$2.354 \times 10^{-4}$	1.000	$7.371 \times 10^{-3}$	$8.067 \times 10^{-3}$
0.6800	0.1800	$2.403 \times 10^{-4}$	0.998	$1.056 \times 10^{-2}$	$8.465 \times 10^{-3}$
0.6867	0.1800	$2.440 \times 10^{-4}$	0.998	$1.559 \times 10^{-2}$	$8.883 \times 10^{-3}$
0.6933	0.1800	$2.577 \times 10^{-4}$	0.996	$2.282 \times 10^{-2}$	$9.642 \times 10^{-3}$
0.7000	0.1800	$2.733 \times 10^{-4}$	0.994	$3.347 \times 10^{-2}$	$1.097 \times 10^{-2}$
0.7067	0.1800	$2.928 \times 10^{-4}$	0.990	$4.573 \times 10^{-2}$	$1.251 \times 10^{-2}$
0.7133	0.1800	$3.213 \times 10^{-4}$	0.987	$5.846 \times 10^{-2}$	$1.456 \times 10^{-2}$
0.7200	0.1800	$3.531 \times 10^{-4}$	0.984	$7.340 \times 10^{-2}$	$1.692 \times 10^{-2}$
0.7267	0.1800	$3.973 \times 10^{-4}$	0.981	$8.809 \times 10^{-2}$	$2.020 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7333	0.1800	$4.381 \times 10^{-4}$	0.978	0.101	$2.332 \times 10^{-2}$
0.7400	0.1800	$5.020 \times 10^{-4}$	0.965	0.122	$3.216 \times 10^{-2}$
0.7467	0.1800	$7.101 \times 10^{-4}$	0.871	0.222	$1.031 \times 10^{-1}$
0.7533	0.1800	$1.592 \times 10^{-3}$	0.694	0.381	$3.984 \times 10^{-1}$
0.7600	0.1800	$2.355 \times 10^{-3}$	0.613	0.422	$6.694 \times 10^{-1}$
0.7667	0.1800	$2.288 \times 10^{-3}$	0.559	0.389	$7.266 \times 10^{-1}$
0.7733	0.1800	$2.063 \times 10^{-3}$	0.482	0.341	$7.340 \times 10^{-1}$
0.7800	0.1800	$1.986 \times 10^{-3}$	0.378	0.280	$7.490 \times 10^{-1}$
0.7867	0.1800	$2.028 \times 10^{-3}$	0.282	0.223	$7.482 \times 10^{-1}$
0.7933	0.1800	$2.316 \times 10^{-3}$	0.201	0.177	$7.411 \times 10^{-1}$
0.8000	0.1800	$2.796 \times 10^{-3}$	0.150	0.146	$7.157 \times 10^{-1}$
0.8067	0.1800	$3.382 \times 10^{-3}$	0.119	0.129	$6.874 \times 10^{-1}$
0.8133	0.1800	$3.955 \times 10^{-3}$	0.105	0.122	$6.511 \times 10^{-1}$
0.8200	0.1800	$4.417 \times 10^{-3}$	$9.927 \times 10^{-2}$	0.121	$6.261 \times 10^{-1}$
0.8267	0.1800	$4.686 \times 10^{-3}$	$9.900 \times 10^{-2}$	0.125	$6.006 \times 10^{-1}$
0.8333	0.1800	$4.849 \times 10^{-3}$	0.102	0.136	$5.728 \times 10^{-1}$
0.8400	0.1800	$4.760 \times 10^{-3}$	0.112	0.144	$5.217 \times 10^{-1}$
0.8467	0.1800	$4.504 \times 10^{-3}$	0.122	0.147	$4.698 \times 10^{-1}$
0.8533	0.1800	$4.103 \times 10^{-3}$	0.125	0.150	$4.156 \times 10^{-1}$
0.8600	0.1800	$3.439 \times 10^{-3}$	0.126	0.164	$3.290 \times 10^{-1}$
0.8667	0.1800	$2.551 \times 10^{-3}$	0.121	0.195	$2.119 \times 10^{-1}$
0.8733	0.1800	$1.726 \times 10^{-3}$	0.111	0.243	$1.028 \times 10^{-1}$
0.8800	0.1800	$1.294 \times 10^{-3}$	0.103	0.288	$3.919 \times 10^{-2}$
0.8867	0.1800	$1.065 \times 10^{-3}$	0.103	0.314	$1.175 \times 10^{-2}$
0.8933	0.1800	$9.932 \times 10^{-4}$	0.111	0.317	$6.568 \times 10^{-3}$
0.9000	0.1800	$9.098 \times 10^{-4}$	0.120	0.315	$4.252 \times 10^{-3}$
0.9067	0.1800	$8.898 \times 10^{-4}$	0.130	0.312	$3.985 \times 10^{-3}$
0.9133	0.1800	$8.404 \times 10^{-4}$	0.140	0.308	$3.643 \times 10^{-3}$
0.9200	0.1800	$7.854 \times 10^{-4}$	0.149	0.303	$3.351 \times 10^{-3}$
0.9267	0.1800	$7.333 \times 10^{-4}$	0.158	0.300	$3.085 \times 10^{-3}$
0.9333	0.1800	$6.896 \times 10^{-4}$	0.166	0.295	$2.825 \times 10^{-3}$
0.9400	0.1800	$6.489 \times 10^{-4}$	0.175	0.290	$2.579 \times 10^{-3}$
0.9467	0.1800	$6.174 \times 10^{-4}$	0.182	0.286	$2.403 \times 10^{-3}$
0.9533	0.1800	$5.784 \times 10^{-4}$	0.190	0.281	$2.193 \times 10^{-3}$
0.9600	0.1800	$5.394 \times 10^{-4}$	0.196	0.276	$1.992 \times 10^{-3}$
0.9667	0.1800	$4.961 \times 10^{-4}$	0.203	0.272	$1.783 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.9733	0.1800	$4.275 \times 10^{-4}$	0.209	0.266	$1.500 \times 10^{-3}$
0.9800	0.1800	$3.965 \times 10^{-4}$	0.215	0.262	$1.371 \times 10^{-3}$
0.9867	0.1800	$3.635 \times 10^{-4}$	0.221	0.257	$1.237 \times 10^{-3}$
0.9933	0.1800	$3.332 \times 10^{-4}$	0.227	0.253	$1.102 \times 10^{-3}$
1.0000	0.1800	$2.995 \times 10^{-4}$	0.232	0.248	$9.757 \times 10^{-4}$
0.6667	0.1867	$2.262 \times 10^{-4}$	1.000	$1.103 \times 10^{-3}$	$7.427 \times 10^{-3}$
0.6733	0.1867	$2.260 \times 10^{-4}$	1.000	$1.415 \times 10^{-3}$	$7.473 \times 10^{-3}$
0.6800	0.1867	$2.260 \times 10^{-4}$	0.999	$2.009 \times 10^{-3}$	$7.481 \times 10^{-3}$
0.6867	0.1867	$2.261 \times 10^{-4}$	0.999	$2.822 \times 10^{-3}$	$7.497 \times 10^{-3}$
0.6933	0.1867	$2.264 \times 10^{-4}$	0.999	$4.110 \times 10^{-3}$	$7.598 \times 10^{-3}$
0.7000	0.1867	$2.294 \times 10^{-4}$	0.999	$5.683 \times 10^{-3}$	$7.778 \times 10^{-3}$
0.7067	0.1867	$2.343 \times 10^{-4}$	0.998	$8.772 \times 10^{-3}$	$8.122 \times 10^{-3}$
0.7133	0.1867	$2.403 \times 10^{-4}$	0.997	$1.286 \times 10^{-2}$	$8.562 \times 10^{-3}$
0.7200	0.1867	$2.452 \times 10^{-4}$	0.997	$1.705 \times 10^{-2}$	$9.005 \times 10^{-3}$
0.7267	0.1867	$2.584 \times 10^{-4}$	0.995	$2.527 \times 10^{-2}$	$9.947 \times 10^{-3}$
0.7333	0.1867	$2.765 \times 10^{-4}$	0.993	$3.488 \times 10^{-2}$	$1.120 \times 10^{-2}$
0.7400	0.1867	$2.995 \times 10^{-4}$	0.991	$4.772 \times 10^{-2}$	$1.288 \times 10^{-2}$
0.7467	0.1867	$3.433 \times 10^{-4}$	0.975	$7.545 \times 10^{-2}$	$2.018 \times 10^{-2}$
0.7533	0.1867	$5.884 \times 10^{-4}$	0.849	0.217	$9.691 \times 10^{-2}$
0.7600	0.1867	$1.413 \times 10^{-3}$	0.667	0.402	$3.731 \times 10^{-1}$
0.7667	0.1867	$2.187 \times 10^{-3}$	0.607	0.435	$6.202 \times 10^{-1}$
0.7733	0.1867	$2.256 \times 10^{-3}$	0.567	0.410	$6.928 \times 10^{-1}$
0.7800	0.1867	$2.074 \times 10^{-3}$	0.501	0.368	$7.054 \times 10^{-1}$
0.7867	0.1867	$1.936 \times 10^{-3}$	0.414	0.310	$7.116 \times 10^{-1}$
0.7933	0.1867	$1.953 \times 10^{-3}$	0.319	0.252	$7.069 \times 10^{-1}$
0.8000	0.1867	$2.154 \times 10^{-3}$	0.234	0.202	$7.011 \times 10^{-1}$
0.8067	0.1867	$2.525 \times 10^{-3}$	0.179	0.167	$6.788 \times 10^{-1}$
0.8133	0.1867	$3.053 \times 10^{-3}$	0.142	0.143	$6.563 \times 10^{-1}$
0.8200	0.1867	$3.579 \times 10^{-3}$	0.123	0.133	$6.187 \times 10^{-1}$
0.8267	0.1867	$4.038 \times 10^{-3}$	0.115	0.131	$5.841 \times 10^{-1}$
0.8333	0.1867	$4.379 \times 10^{-3}$	0.113	0.133	$5.565 \times 10^{-1}$
0.8400	0.1867	$4.469 \times 10^{-3}$	0.119	0.139	$5.125 \times 10^{-1}$
0.8467	0.1867	$4.397 \times 10^{-3}$	0.126	0.144	$4.693 \times 10^{-1}$
0.8533	0.1867	$4.233 \times 10^{-3}$	0.131	0.146	$4.326 \times 10^{-1}$
0.8600	0.1867	$4.090 \times 10^{-3}$	0.135	0.146	$4.063 \times 10^{-1}$
0.8667	0.1867	$3.832 \times 10^{-3}$	0.140	0.149	$3.705 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8733	0.1867	$3.361 \times 10^{-3}$	0.143	0.156	$3.131 \times 10^{-1}$
0.8800	0.1867	$2.732 \times 10^{-3}$	0.144	0.173	$2.339 \times 10^{-1}$
0.8867	0.1867	$2.001 \times 10^{-3}$	0.138	0.206	$1.407 \times 10^{-1}$
0.8933	0.1867	$1.431 \times 10^{-3}$	0.132	0.245	$7.240 \times 10^{-2}$
0.9000	0.1867	$1.060 \times 10^{-3}$	0.129	0.279	$3.218 \times 10^{-2}$
0.9067	0.1867	$9.116 \times 10^{-4}$	0.131	0.299	$1.358 \times 10^{-2}$
0.9133	0.1867	$8.269 \times 10^{-4}$	0.138	0.306	$6.152 \times 10^{-3}$
0.9200	0.1867	$7.606 \times 10^{-4}$	0.146	0.304	$3.941 \times 10^{-3}$
0.9267	0.1867	$7.095 \times 10^{-4}$	0.154	0.301	$3.103 \times 10^{-3}$
0.9333	0.1867	$6.584 \times 10^{-4}$	0.162	0.297	$2.675 \times 10^{-3}$
0.9400	0.1867	$6.281 \times 10^{-4}$	0.170	0.293	$2.436 \times 10^{-3}$
0.9467	0.1867	$5.971 \times 10^{-4}$	0.178	0.289	$2.266 \times 10^{-3}$
0.9533	0.1867	$5.636 \times 10^{-4}$	0.185	0.284	$2.096 \times 10^{-3}$
0.9600	0.1867	$5.284 \times 10^{-4}$	0.192	0.280	$1.920 \times 10^{-3}$
0.9667	0.1867	$4.902 \times 10^{-4}$	0.198	0.275	$1.742 \times 10^{-3}$
0.9733	0.1867	$4.508 \times 10^{-4}$	0.205	0.270	$1.556 \times 10^{-3}$
0.9800	0.1867	$4.070 \times 10^{-4}$	0.211	0.266	$1.374 \times 10^{-3}$
0.9867	0.1867	$3.750 \times 10^{-4}$	0.216	0.261	$1.251 \times 10^{-3}$
0.9933	0.1867	$3.407 \times 10^{-4}$	0.222	0.257	$1.104 \times 10^{-3}$
1.0000	0.1867	$3.085 \times 10^{-4}$	0.227	0.252	$9.811 \times 10^{-4}$
0.6667	0.1933	$2.264 \times 10^{-4}$	1.001	$-3.716 \times 10^{-5}$	$7.468 \times 10^{-3}$
0.6733	0.1933	$2.247 \times 10^{-4}$	1.000	$1.072 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.6800	0.1933	$2.255 \times 10^{-4}$	1.000	$6.867 \times 10^{-4}$	$7.429 \times 10^{-3}$
0.6867	0.1933	$2.272 \times 10^{-4}$	1.000	$1.541 \times 10^{-3}$	$7.516 \times 10^{-3}$
0.6933	0.1933	$2.264 \times 10^{-4}$	1.000	$2.136 \times 10^{-3}$	$7.542 \times 10^{-3}$
0.7000	0.1933	$2.277 \times 10^{-4}$	1.001	$1.550 \times 10^{-3}$	$7.560 \times 10^{-3}$
0.7067	0.1933	$2.280 \times 10^{-4}$	1.001	$1.083 \times 10^{-3}$	$7.586 \times 10^{-3}$
0.7133	0.1933	$2.291 \times 10^{-4}$	1.001	$1.268 \times 10^{-3}$	$7.630 \times 10^{-3}$
0.7200	0.1933	$2.290 \times 10^{-4}$	1.000	$1.748 \times 10^{-3}$	$7.670 \times 10^{-3}$
0.7267	0.1933	$2.306 \times 10^{-4}$	1.000	$2.836 \times 10^{-3}$	$7.768 \times 10^{-3}$
0.7333	0.1933	$2.329 \times 10^{-4}$	0.999	$4.790 \times 10^{-3}$	$7.934 \times 10^{-3}$
0.7400	0.1933	$2.371 \times 10^{-4}$	0.998	$8.249 \times 10^{-3}$	$8.251 \times 10^{-3}$
0.7467	0.1933	$2.416 \times 10^{-4}$	0.998	$1.103 \times 10^{-2}$	$8.480 \times 10^{-3}$
0.7533	0.1933	$2.648 \times 10^{-4}$	0.977	$4.082 \times 10^{-2}$	$1.577 \times 10^{-2}$
0.7600	0.1933	$4.702 \times 10^{-4}$	0.818	0.216	$9.475 \times 10^{-2}$
0.7667	0.1933	$1.259 \times 10^{-3}$	0.636	0.416	$3.584 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7733	0.1933	$2.015 \times 10^{-3}$	0.587	0.454	$5.750 \times 10^{-1}$
0.7800	0.1933	$2.134 \times 10^{-3}$	0.561	0.431	$6.408 \times 10^{-1}$
0.7867	0.1933	$2.022 \times 10^{-3}$	0.509	0.390	$6.611 \times 10^{-1}$
0.7933	0.1933	$1.888 \times 10^{-3}$	0.433	0.338	$6.673 \times 10^{-1}$
0.8000	0.1933	$1.869 \times 10^{-3}$	0.347	0.279	$6.649 \times 10^{-1}$
0.8067	0.1933	$1.999 \times 10^{-3}$	0.264	0.229	$6.501 \times 10^{-1}$
0.8133	0.1933	$2.279 \times 10^{-3}$	0.204	0.188	$6.299 \times 10^{-1}$
0.8200	0.1933	$2.722 \times 10^{-3}$	0.163	0.161	$6.059 \times 10^{-1}$
0.8267	0.1933	$3.257 \times 10^{-3}$	0.139	0.147	$5.783 \times 10^{-1}$
0.8333	0.1933	$3.711 \times 10^{-3}$	0.130	0.139	$5.438 \times 10^{-1}$
0.8400	0.1933	$3.996 \times 10^{-3}$	0.128	0.140	$5.063 \times 10^{-1}$
0.8467	0.1933	$4.083 \times 10^{-3}$	0.132	0.141	$4.657 \times 10^{-1}$
0.8533	0.1933	$4.098 \times 10^{-3}$	0.137	0.144	$4.322 \times 10^{-1}$
0.8600	0.1933	$4.023 \times 10^{-3}$	0.140	0.144	$4.044 \times 10^{-1}$
0.8667	0.1933	$3.884 \times 10^{-3}$	0.145	0.146	$3.786 \times 10^{-1}$
0.8733	0.1933	$3.752 \times 10^{-3}$	0.148	0.146	$3.555 \times 10^{-1}$
0.8800	0.1933	$3.517 \times 10^{-3}$	0.155	0.147	$3.226 \times 10^{-1}$
0.8867	0.1933	$3.278 \times 10^{-3}$	0.158	0.150	$2.922 \times 10^{-1}$
0.8933	0.1933	$2.807 \times 10^{-3}$	0.162	0.157	$2.409 \times 10^{-1}$
0.9000	0.1933	$2.246 \times 10^{-3}$	0.163	0.169	$1.814 \times 10^{-1}$
0.9067	0.1933	$1.696 \times 10^{-3}$	0.160	0.196	$1.174 \times 10^{-1}$
0.9133	0.1933	$1.275 \times 10^{-3}$	0.156	0.228	$6.743 \times 10^{-2}$
0.9200	0.1933	$1.002 \times 10^{-3}$	0.155	0.254	$3.666 \times 10^{-2}$
0.9267	0.1933	$8.130 \times 10^{-4}$	0.157	0.273	$1.893 \times 10^{-2}$
0.9333	0.1933	$7.036 \times 10^{-4}$	0.161	0.283	$1.051 \times 10^{-2}$
0.9400	0.1933	$6.203 \times 10^{-4}$	0.167	0.289	$5.573 \times 10^{-3}$
0.9467	0.1933	$5.843 \times 10^{-4}$	0.174	0.288	$3.828 \times 10^{-3}$
0.9533	0.1933	$5.496 \times 10^{-4}$	0.181	0.286	$2.445 \times 10^{-3}$
0.9600	0.1933	$5.178 \times 10^{-4}$	0.188	0.282	$2.312 \times 10^{-3}$
0.9667	0.1933	$4.820 \times 10^{-4}$	0.194	0.279	$1.764 \times 10^{-3}$
0.9733	0.1933	$4.491 \times 10^{-4}$	0.200	0.274	$1.493 \times 10^{-3}$
0.9800	0.1933	$4.084 \times 10^{-4}$	0.206	0.269	$1.343 \times 10^{-3}$
0.9867	0.1933	$3.696 \times 10^{-4}$	0.212	0.265	$1.219 \times 10^{-3}$
0.9933	0.1933	$3.402 \times 10^{-4}$	0.217	0.260	$1.148 \times 10^{-3}$
1.0000	0.1933	$3.089 \times 10^{-4}$	0.223	0.256	$9.924 \times 10^{-4}$
0.6667	0.2000	$2.235 \times 10^{-4}$	1.001	$-1.501 \times 10^{-4}$	$7.386 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.6733	0.2000	$2.232 \times 10^{-4}$	1.001	$-1.132 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.6800	0.2000	$2.237 \times 10^{-4}$	1.001	$-5.556 \times 10^{-5}$	$7.392 \times 10^{-3}$
0.6867	0.2000	$2.234 \times 10^{-4}$	1.001	$-2.686 \times 10^{-5}$	$7.388 \times 10^{-3}$
0.6933	0.2000	$2.248 \times 10^{-4}$	1.000	$3.032 \times 10^{-4}$	$7.433 \times 10^{-3}$
0.7000	0.2000	$2.253 \times 10^{-4}$	1.000	$2.765 \times 10^{-5}$	$7.462 \times 10^{-3}$
0.7067	0.2000	$2.249 \times 10^{-4}$	1.001	$2.153 \times 10^{-4}$	$7.475 \times 10^{-3}$
0.7133	0.2000	$2.248 \times 10^{-4}$	1.001	$3.941 \times 10^{-4}$	$7.463 \times 10^{-3}$
0.7200	0.2000	$2.241 \times 10^{-4}$	1.000	$5.555 \times 10^{-4}$	$7.459 \times 10^{-3}$
0.7267	0.2000	$2.238 \times 10^{-4}$	1.001	$7.197 \times 10^{-4}$	$7.438 \times 10^{-3}$
0.7333	0.2000	$2.244 \times 10^{-4}$	1.001	$9.717 \times 10^{-4}$	$7.430 \times 10^{-3}$
0.7400	0.2000	$2.258 \times 10^{-4}$	1.001	$1.756 \times 10^{-3}$	$7.483 \times 10^{-3}$
0.7467	0.2000	$2.262 \times 10^{-4}$	1.000	$1.655 \times 10^{-3}$	$7.465 \times 10^{-3}$
0.7533	0.2000	$2.258 \times 10^{-4}$	1.002	$3.060 \times 10^{-4}$	$7.165 \times 10^{-3}$
0.7600	0.2000	$2.405 \times 10^{-4}$	0.977	$2.483 \times 10^{-2}$	$1.478 \times 10^{-2}$
0.7667	0.2000	$4.641 \times 10^{-4}$	0.771	0.237	$1.115 \times 10^{-1}$
0.7733	0.2000	$1.186 \times 10^{-3}$	0.593	0.440	$3.628 \times 10^{-1}$
0.7800	0.2000	$1.826 \times 10^{-3}$	0.570	0.467	$5.346 \times 10^{-1}$
0.7867	0.2000	$1.996 \times 10^{-3}$	0.552	0.451	$5.890 \times 10^{-1}$
0.7933	0.2000	$1.924 \times 10^{-3}$	0.512	0.414	$6.124 \times 10^{-1}$
0.8000	0.2000	$1.805 \times 10^{-3}$	0.449	0.365	$6.137 \times 10^{-1}$
0.8067	0.2000	$1.785 \times 10^{-3}$	0.366	0.304	$6.162 \times 10^{-1}$
0.8133	0.2000	$1.870 \times 10^{-3}$	0.290	0.250	$6.052 \times 10^{-1}$
0.8200	0.2000	$2.097 \times 10^{-3}$	0.230	0.207	$5.876 \times 10^{-1}$
0.8267	0.2000	$2.466 \times 10^{-3}$	0.184	0.178	$5.612 \times 10^{-1}$
0.8333	0.2000	$2.897 \times 10^{-3}$	0.160	0.160	$5.277 \times 10^{-1}$
0.8400	0.2000	$3.304 \times 10^{-3}$	0.148	0.150	$4.901 \times 10^{-1}$
0.8467	0.2000	$3.563 \times 10^{-3}$	0.145	0.146	$4.548 \times 10^{-1}$
0.8533	0.2000	$3.754 \times 10^{-3}$	0.145	0.144	$4.250 \times 10^{-1}$
0.8600	0.2000	$3.834 \times 10^{-3}$	0.148	0.144	$4.004 \times 10^{-1}$
0.8667	0.2000	$3.756 \times 10^{-3}$	0.150	0.144	$3.731 \times 10^{-1}$
0.8733	0.2000	$3.633 \times 10^{-3}$	0.155	0.145	$3.467 \times 10^{-1}$
0.8800	0.2000	$3.496 \times 10^{-3}$	0.158	0.145	$3.229 \times 10^{-1}$
0.8867	0.2000	$3.388 \times 10^{-3}$	0.162	0.145	$3.037 \times 10^{-1}$
0.8933	0.2000	$3.238 \times 10^{-3}$	0.167	0.145	$2.830 \times 10^{-1}$
0.9000	0.2000	$3.059 \times 10^{-3}$	0.172	0.144	$2.619 \times 10^{-1}$
0.9067	0.2000	$2.782 \times 10^{-3}$	0.175	0.144	$2.345 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.9133	0.2000	$2.454 \times 10^{-3}$	0.180	0.146	$2.040 \times 10^{-1}$
0.9200	0.2000	$2.111 \times 10^{-3}$	0.180	0.153	$1.666 \times 10^{-1}$
0.9267	0.2000	$1.734 \times 10^{-3}$	0.182	0.158	$1.311 \times 10^{-1}$
0.9333	0.2000	$1.367 \times 10^{-3}$	0.182	0.178	$9.217 \times 10^{-2}$
0.9400	0.2000	$1.054 \times 10^{-3}$	0.184	0.194	$6.343 \times 10^{-2}$
0.9467	0.2000	$8.727 \times 10^{-4}$	0.183	0.216	$4.292 \times 10^{-2}$
0.9533	0.2000	$6.989 \times 10^{-4}$	0.185	0.234	$2.695 \times 10^{-2}$
0.9600	0.2000	$6.284 \times 10^{-4}$	0.189	0.245	$1.843 \times 10^{-2}$
0.9667	0.2000	$5.365 \times 10^{-4}$	0.194	0.255	$1.168 \times 10^{-2}$
0.9733	0.2000	$4.931 \times 10^{-4}$	0.199	0.256	$8.633 \times 10^{-3}$
0.9800	0.2000	$4.385 \times 10^{-4}$	0.203	0.258	$6.188 \times 10^{-3}$
0.9867	0.2000	$3.996 \times 10^{-4}$	0.208	0.254	$5.234 \times 10^{-3}$
0.9933	0.2000	$3.583 \times 10^{-4}$	0.213	0.251	$4.530 \times 10^{-3}$
1.0000	0.2000	$3.352 \times 10^{-4}$	0.218	0.246	$4.405 \times 10^{-3}$
0.6667	0.2067	$2.235 \times 10^{-4}$	1.000	$3.027 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.6733	0.2067	$2.237 \times 10^{-4}$	1.000	$6.319 \times 10^{-5}$	$7.389 \times 10^{-3}$
0.6800	0.2067	$2.230 \times 10^{-4}$	1.001	$-6.891 \times 10^{-5}$	$7.369 \times 10^{-3}$
0.6867	0.2067	$2.223 \times 10^{-4}$	1.000	$-4.576 \times 10^{-5}$	$7.357 \times 10^{-3}$
0.6933	0.2067	$2.240 \times 10^{-4}$	1.000	$3.695 \times 10^{-6}$	$7.387 \times 10^{-3}$
0.7000	0.2067	$2.233 \times 10^{-4}$	1.000	$1.218 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.7067	0.2067	$2.231 \times 10^{-4}$	1.000	$2.665 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.7133	0.2067	$2.244 \times 10^{-4}$	1.000	$3.683 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.7200	0.2067	$2.228 \times 10^{-4}$	1.000	$3.711 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.7267	0.2067	$2.227 \times 10^{-4}$	1.001	$4.839 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.7333	0.2067	$2.245 \times 10^{-4}$	1.000	$5.206 \times 10^{-4}$	$7.429 \times 10^{-3}$
0.7400	0.2067	$2.237 \times 10^{-4}$	1.000	$5.995 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.7467	0.2067	$2.259 \times 10^{-4}$	1.001	$1.026 \times 10^{-3}$	$7.453 \times 10^{-3}$
0.7533	0.2067	$2.226 \times 10^{-4}$	1.001	$1.079 \times 10^{-3}$	$7.443 \times 10^{-3}$
0.7600	0.2067	$2.267 \times 10^{-4}$	0.998	$3.406 \times 10^{-3}$	$8.432 \times 10^{-3}$
0.7667	0.2067	$2.488 \times 10^{-4}$	0.942	$5.373 \times 10^{-2}$	$2.574 \times 10^{-2}$
0.7733	0.2067	$4.982 \times 10^{-4}$	0.728	0.262	$1.387 \times 10^{-1}$
0.7800	0.2067	$1.186 \times 10^{-3}$	0.577	0.437	$3.797 \times 10^{-1}$
0.7867	0.2067	$1.723 \times 10^{-3}$	0.554	0.470	$5.209 \times 10^{-1}$
0.7933	0.2067	$1.882 \times 10^{-3}$	0.541	0.459	$5.612 \times 10^{-1}$
0.8000	0.2067	$1.827 \times 10^{-3}$	0.509	0.427	$5.717 \times 10^{-1}$
0.8067	0.2067	$1.731 \times 10^{-3}$	0.453	0.381	$5.700 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.8133	0.2067	$1.684 \times 10^{-3}$	0.383	0.326	$5.636 \times 10^{-1}$
0.8200	0.2067	$1.741 \times 10^{-3}$	0.312	0.273	$5.527 \times 10^{-1}$
0.8267	0.2067	$1.917 \times 10^{-3}$	0.249	0.226	$5.362 \times 10^{-1}$
0.8333	0.2067	$2.226 \times 10^{-3}$	0.205	0.193	$5.160 \times 10^{-1}$
0.8400	0.2067	$2.625 \times 10^{-3}$	0.178	0.171	$4.887 \times 10^{-1}$
0.8467	0.2067	$2.969 \times 10^{-3}$	0.166	0.157	$4.568 \times 10^{-1}$
0.8533	0.2067	$3.248 \times 10^{-3}$	0.159	0.150	$4.225 \times 10^{-1}$
0.8600	0.2067	$3.449 \times 10^{-3}$	0.156	0.147	$3.957 \times 10^{-1}$
0.8667	0.2067	$3.560 \times 10^{-3}$	0.157	0.144	$3.708 \times 10^{-1}$
0.8733	0.2067	$3.524 \times 10^{-3}$	0.159	0.144	$3.466 \times 10^{-1}$
0.8800	0.2067	$3.409 \times 10^{-3}$	0.163	0.144	$3.189 \times 10^{-1}$
0.8867	0.2067	$3.311 \times 10^{-3}$	0.165	0.143	$2.981 \times 10^{-1}$
0.8933	0.2067	$3.189 \times 10^{-3}$	0.170	0.145	$2.795 \times 10^{-1}$
0.9000	0.2067	$3.045 \times 10^{-3}$	0.174	0.144	$2.577 \times 10^{-1}$
0.9067	0.2067	$2.894 \times 10^{-3}$	0.177	0.143	$2.401 \times 10^{-1}$
0.9133	0.2067	$2.728 \times 10^{-3}$	0.183	0.141	$2.246 \times 10^{-1}$
0.9200	0.2067	$2.573 \times 10^{-3}$	0.186	0.139	$2.093 \times 10^{-1}$
0.9267	0.2067	$2.413 \times 10^{-3}$	0.190	0.137	$1.940 \times 10^{-1}$
0.9333	0.2067	$2.197 \times 10^{-3}$	0.194	0.134	$1.740 \times 10^{-1}$
0.9400	0.2067	$1.975 \times 10^{-3}$	0.196	0.133	$1.540 \times 10^{-1}$
0.9467	0.2067	$1.760 \times 10^{-3}$	0.199	0.133	$1.371 \times 10^{-1}$
0.9533	0.2067	$1.554 \times 10^{-3}$	0.201	0.136	$1.172 \times 10^{-1}$
0.9600	0.2067	$1.367 \times 10^{-3}$	0.202	0.140	$1.003 \times 10^{-1}$
0.9667	0.2067	$1.200 \times 10^{-3}$	0.205	0.144	$8.442 \times 10^{-2}$
0.9733	0.2067	$1.042 \times 10^{-3}$	0.208	0.149	$7.066 \times 10^{-2}$
0.9800	0.2067	$9.067 \times 10^{-4}$	0.211	0.154	$5.770 \times 10^{-2}$
0.9867	0.2067	$7.943 \times 10^{-4}$	0.213	0.158	$4.870 \times 10^{-2}$
0.9933	0.2067	$7.027 \times 10^{-4}$	0.216	0.154	$4.308 \times 10^{-2}$
1.0000	0.2067	$6.367 \times 10^{-4}$	0.218	0.151	$3.928 \times 10^{-2}$
0.6667	0.2133	$2.243 \times 10^{-4}$	1.000	$4.341 \times 10^{-4}$	$7.420 \times 10^{-3}$
0.6733	0.2133	$2.245 \times 10^{-4}$	1.000	$2.596 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.6800	0.2133	$2.241 \times 10^{-4}$	1.000	$1.163 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.6867	0.2133	$2.236 \times 10^{-4}$	1.000	$2.014 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.6933	0.2133	$2.239 \times 10^{-4}$	1.000	$1.827 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.7000	0.2133	$2.230 \times 10^{-4}$	1.000	$4.728 \times 10^{-5}$	$7.348 \times 10^{-3}$
0.7067	0.2133	$2.231 \times 10^{-4}$	1.000	$6.508 \times 10^{-5}$	$7.356 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7133	0.2133	$2.243 \times 10^{-4}$	1.000	$4.045 \times 10^{-5}$	$7.400 \times 10^{-3}$
0.7200	0.2133	$2.229 \times 10^{-4}$	1.000	$4.057 \times 10^{-5}$	$7.361 \times 10^{-3}$
0.7267	0.2133	$2.233 \times 10^{-4}$	1.000	$5.665 \times 10^{-5}$	$7.386 \times 10^{-3}$
0.7333	0.2133	$2.241 \times 10^{-4}$	1.000	$-7.094 \times 10^{-5}$	$7.418 \times 10^{-3}$
0.7400	0.2133	$2.233 \times 10^{-4}$	1.000	$-1.139 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.7467	0.2133	$2.232 \times 10^{-4}$	1.000	$3.372 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.7533	0.2133	$2.237 \times 10^{-4}$	1.000	$4.773 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.7600	0.2133	$2.239 \times 10^{-4}$	0.999	$1.465 \times 10^{-3}$	$7.525 \times 10^{-3}$
0.7667	0.2133	$2.251 \times 10^{-4}$	0.993	$5.880 \times 10^{-3}$	$9.382 \times 10^{-3}$
0.7733	0.2133	$2.624 \times 10^{-4}$	0.917	$7.290 \times 10^{-2}$	$3.491 \times 10^{-2}$
0.7800	0.2133	$5.678 \times 10^{-4}$	0.682	0.291	$1.761 \times 10^{-1}$
0.7867	0.2133	$1.222 \times 10^{-3}$	0.555	0.442	$4.083 \times 10^{-1}$
0.7933	0.2133	$1.663 \times 10^{-3}$	0.541	0.469	$5.181 \times 10^{-1}$
0.8000	0.2133	$1.790 \times 10^{-3}$	0.534	0.462	$5.382 \times 10^{-1}$
0.8067	0.2133	$1.753 \times 10^{-3}$	0.507	0.435	$5.422 \times 10^{-1}$
0.8133	0.2133	$1.665 \times 10^{-3}$	0.460	0.393	$5.360 \times 10^{-1}$
0.8200	0.2133	$1.608 \times 10^{-3}$	0.397	0.344	$5.259 \times 10^{-1}$
0.8267	0.2133	$1.657 \times 10^{-3}$	0.329	0.289	$5.199 \times 10^{-1}$
0.8333	0.2133	$1.791 \times 10^{-3}$	0.270	0.242	$5.015 \times 10^{-1}$
0.8400	0.2133	$2.032 \times 10^{-3}$	0.225	0.206	$4.785 \times 10^{-1}$
0.8467	0.2133	$2.322 \times 10^{-3}$	0.200	0.183	$4.447 \times 10^{-1}$
0.8533	0.2133	$2.637 \times 10^{-3}$	0.182	0.167	$4.163 \times 10^{-1}$
0.8600	0.2133	$2.925 \times 10^{-3}$	0.174	0.157	$3.879 \times 10^{-1}$
0.8667	0.2133	$3.163 \times 10^{-3}$	0.169	0.150	$3.680 \times 10^{-1}$
0.8733	0.2133	$3.238 \times 10^{-3}$	0.168	0.148	$3.379 \times 10^{-1}$
0.8800	0.2133	$3.236 \times 10^{-3}$	0.170	0.145	$3.155 \times 10^{-1}$
0.8867	0.2133	$3.194 \times 10^{-3}$	0.172	0.144	$2.949 \times 10^{-1}$
0.8933	0.2133	$3.115 \times 10^{-3}$	0.174	0.144	$2.755 \times 10^{-1}$
0.9000	0.2133	$3.002 \times 10^{-3}$	0.178	0.144	$2.547 \times 10^{-1}$
0.9067	0.2133	$2.887 \times 10^{-3}$	0.181	0.142	$2.399 \times 10^{-1}$
0.9133	0.2133	$2.754 \times 10^{-3}$	0.185	0.141	$2.231 \times 10^{-1}$
0.9200	0.2133	$2.590 \times 10^{-3}$	0.189	0.139	$2.069 \times 10^{-1}$
0.9267	0.2133	$2.456 \times 10^{-3}$	0.192	0.137	$1.928 \times 10^{-1}$
0.9333	0.2133	$2.304 \times 10^{-3}$	0.196	0.135	$1.788 \times 10^{-1}$
0.9400	0.2133	$2.180 \times 10^{-3}$	0.200	0.131	$1.676 \times 10^{-1}$
0.9467	0.2133	$2.049 \times 10^{-3}$	0.203	0.128	$1.565 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9533	0.2133	$1.923 \times 10^{-3}$	0.205	0.124	$1.467 \times 10^{-1}$
0.9600	0.2133	$1.799 \times 10^{-3}$	0.209	0.121	$1.361 \times 10^{-1}$
0.9667	0.2133	$1.710 \times 10^{-3}$	0.210	0.119	$1.292 \times 10^{-1}$
0.9733	0.2133	$1.576 \times 10^{-3}$	0.213	0.114	$1.188 \times 10^{-1}$
0.9800	0.2133	$1.475 \times 10^{-3}$	0.216	0.111	$1.105 \times 10^{-1}$
0.9867	0.2133	$1.362 \times 10^{-3}$	0.219	0.109	$1.015 \times 10^{-1}$
0.9933	0.2133	$1.269 \times 10^{-3}$	0.221	0.103	$9.407 \times 10^{-2}$
1.0000	0.2133	$1.179 \times 10^{-3}$	0.223	$9.800 \times 10^{-2}$	$8.732 \times 10^{-2}$
0.6667	0.2200	$2.239 \times 10^{-4}$	1.000	$2.377 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.6733	0.2200	$2.238 \times 10^{-4}$	1.000	$9.504 \times 10^{-5}$	$7.391 \times 10^{-3}$
0.6800	0.2200	$2.244 \times 10^{-4}$	1.000	$1.130 \times 10^{-4}$	$7.411 \times 10^{-3}$
0.6867	0.2200	$2.248 \times 10^{-4}$	1.000	$1.818 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.6933	0.2200	$2.232 \times 10^{-4}$	1.000	$3.105 \times 10^{-5}$	$7.382 \times 10^{-3}$
0.7000	0.2200	$2.234 \times 10^{-4}$	1.000	$-1.491 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.7067	0.2200	$2.237 \times 10^{-4}$	1.000	$-2.655 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.7133	0.2200	$2.232 \times 10^{-4}$	1.000	$-3.599 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.7200	0.2200	$2.237 \times 10^{-4}$	1.000	$-3.960 \times 10^{-6}$	$7.388 \times 10^{-3}$
0.7267	0.2200	$2.237 \times 10^{-4}$	1.000	$-1.148 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.7333	0.2200	$2.241 \times 10^{-4}$	1.000	$-1.105 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.7400	0.2200	$2.245 \times 10^{-4}$	1.001	$5.440 \times 10^{-4}$	$7.428 \times 10^{-3}$
0.7467	0.2200	$2.251 \times 10^{-4}$	1.000	$-4.627 \times 10^{-4}$	$7.447 \times 10^{-3}$
0.7533	0.2200	$2.257 \times 10^{-4}$	1.000	$2.447 \times 10^{-4}$	$7.456 \times 10^{-3}$
0.7600	0.2200	$2.267 \times 10^{-4}$	1.001	$2.682 \times 10^{-5}$	$7.530 \times 10^{-3}$
0.7667	0.2200	$2.265 \times 10^{-4}$	1.000	$-1.837 \times 10^{-4}$	$7.455 \times 10^{-3}$
0.7733	0.2200	$2.298 \times 10^{-4}$	0.989	$1.074 \times 10^{-2}$	$1.116 \times 10^{-2}$
0.7800	0.2200	$2.962 \times 10^{-4}$	0.867	0.114	$5.366 \times 10^{-2}$
0.7867	0.2200	$6.476 \times 10^{-4}$	0.632	0.331	$2.188 \times 10^{-1}$
0.7933	0.2200	$1.245 \times 10^{-3}$	0.542	0.439	$4.271 \times 10^{-1}$
0.8000	0.2200	$1.594 \times 10^{-3}$	0.533	0.468	$5.060 \times 10^{-1}$
0.8067	0.2200	$1.684 \times 10^{-3}$	0.529	0.463	$5.133 \times 10^{-1}$
0.8133	0.2200	$1.674 \times 10^{-3}$	0.506	0.440	$5.115 \times 10^{-1}$
0.8200	0.2200	$1.594 \times 10^{-3}$	0.466	0.402	$5.046 \times 10^{-1}$
0.8267	0.2200	$1.547 \times 10^{-3}$	0.412	0.356	$4.958 \times 10^{-1}$
0.8333	0.2200	$1.556 \times 10^{-3}$	0.348	0.302	$4.804 \times 10^{-1}$
0.8400	0.2200	$1.648 \times 10^{-3}$	0.292	0.257	$4.595 \times 10^{-1}$
0.8467	0.2200	$1.840 \times 10^{-3}$	0.251	0.221	$4.429 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8533	0.2200	$2.091 \times 10^{-3}$	0.218	0.194	$4.138 \times 10^{-1}$
0.8600	0.2200	$2.375 \times 10^{-3}$	0.198	0.175	$3.876 \times 10^{-1}$
0.8667	0.2200	$2.640 \times 10^{-3}$	0.187	0.162	$3.636 \times 10^{-1}$
0.8733	0.2200	$2.860 \times 10^{-3}$	0.182	0.154	$3.372 \times 10^{-1}$
0.8800	0.2200	$2.992 \times 10^{-3}$	0.180	0.149	$3.188 \times 10^{-1}$
0.8867	0.2200	$3.010 \times 10^{-3}$	0.179	0.146	$2.949 \times 10^{-1}$
0.8933	0.2200	$3.023 \times 10^{-3}$	0.179	0.144	$2.770 \times 10^{-1}$
0.9000	0.2200	$2.933 \times 10^{-3}$	0.181	0.142	$2.557 \times 10^{-1}$
0.9067	0.2200	$2.878 \times 10^{-3}$	0.184	0.141	$2.429 \times 10^{-1}$
0.9133	0.2200	$2.732 \times 10^{-3}$	0.188	0.139	$2.221 \times 10^{-1}$
0.9200	0.2200	$2.630 \times 10^{-3}$	0.191	0.138	$2.107 \times 10^{-1}$
0.9267	0.2200	$2.486 \times 10^{-3}$	0.195	0.137	$1.941 \times 10^{-1}$
0.9333	0.2200	$2.341 \times 10^{-3}$	0.199	0.135	$1.790 \times 10^{-1}$
0.9400	0.2200	$2.198 \times 10^{-3}$	0.203	0.132	$1.656 \times 10^{-1}$
0.9467	0.2200	$2.077 \times 10^{-3}$	0.205	0.129	$1.549 \times 10^{-1}$
0.9533	0.2200	$1.969 \times 10^{-3}$	0.207	0.127	$1.450 \times 10^{-1}$
0.9600	0.2200	$1.866 \times 10^{-3}$	0.210	0.123	$1.368 \times 10^{-1}$
0.9667	0.2200	$1.745 \times 10^{-3}$	0.212	0.120	$1.271 \times 10^{-1}$
0.9733	0.2200	$1.642 \times 10^{-3}$	0.217	0.117	$1.186 \times 10^{-1}$
0.9800	0.2200	$1.550 \times 10^{-3}$	0.219	0.114	$1.117 \times 10^{-1}$
0.9867	0.2200	$1.465 \times 10^{-3}$	0.221	0.110	$1.055 \times 10^{-1}$
0.9933	0.2200	$1.391 \times 10^{-3}$	0.224	0.106	$9.995 \times 10^{-2}$
1.0000	0.2200	$1.303 \times 10^{-3}$	0.227	0.102	$9.261 \times 10^{-2}$
0.6667	0.2267	$2.219 \times 10^{-4}$	1.000	$-1.401 \times 10^{-4}$	$7.335 \times 10^{-3}$
0.6733	0.2267	$2.232 \times 10^{-4}$	0.999	$-1.933 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.6800	0.2267	$2.242 \times 10^{-4}$	0.999	$-1.371 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.6867	0.2267	$2.243 \times 10^{-4}$	1.000	$-3.507 \times 10^{-5}$	$7.414 \times 10^{-3}$
0.6933	0.2267	$2.220 \times 10^{-4}$	1.000	$-1.241 \times 10^{-4}$	$7.368 \times 10^{-3}$
0.7000	0.2267	$2.227 \times 10^{-4}$	1.000	$5.374 \times 10^{-5}$	$7.368 \times 10^{-3}$
0.7067	0.2267	$2.232 \times 10^{-4}$	1.000	$1.012 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.7133	0.2267	$2.228 \times 10^{-4}$	1.000	$-4.436 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.7200	0.2267	$2.235 \times 10^{-4}$	1.000	$-5.190 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.7267	0.2267	$2.229 \times 10^{-4}$	1.000	$-3.909 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.7333	0.2267	$2.227 \times 10^{-4}$	1.000	$-3.300 \times 10^{-4}$	$7.339 \times 10^{-3}$
0.7400	0.2267	$2.244 \times 10^{-4}$	1.000	$-9.143 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.7467	0.2267	$2.224 \times 10^{-4}$	1.000	$-3.629 \times 10^{-4}$	$7.349 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7533	0.2267	$2.245 \times 10^{-4}$	1.000	$-1.458 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.7600	0.2267	$2.231 \times 10^{-4}$	1.000	$1.190 \times 10^{-4}$	$7.321 \times 10^{-3}$
0.7667	0.2267	$2.242 \times 10^{-4}$	1.000	$6.367 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.7733	0.2267	$2.235 \times 10^{-4}$	0.999	$5.878 \times 10^{-4}$	$7.715 \times 10^{-3}$
0.7800	0.2267	$2.359 \times 10^{-4}$	0.976	$1.937 \times 10^{-2}$	$1.525 \times 10^{-2}$
0.7867	0.2267	$3.313 \times 10^{-4}$	0.830	0.145	$7.157 \times 10^{-2}$
0.7933	0.2267	$7.400 \times 10^{-4}$	0.610	0.349	$2.575 \times 10^{-1}$
0.8000	0.2267	$1.277 \times 10^{-3}$	0.533	0.441	$4.479 \times 10^{-1}$
0.8067	0.2267	$1.538 \times 10^{-3}$	0.531	0.463	$4.970 \times 10^{-1}$
0.8133	0.2267	$1.618 \times 10^{-3}$	0.527	0.464	$4.977 \times 10^{-1}$
0.8200	0.2267	$1.616 \times 10^{-3}$	0.508	0.442	$4.933 \times 10^{-1}$
0.8267	0.2267	$1.547 \times 10^{-3}$	0.472	0.410	$4.810 \times 10^{-1}$
0.8333	0.2267	$1.491 \times 10^{-3}$	0.422	0.362	$4.690 \times 10^{-1}$
0.8400	0.2267	$1.481 \times 10^{-3}$	0.366	0.312	$4.496 \times 10^{-1}$
0.8467	0.2267	$1.538 \times 10^{-3}$	0.314	0.271	$4.298 \times 10^{-1}$
0.8533	0.2267	$1.677 \times 10^{-3}$	0.269	0.232	$4.089 \times 10^{-1}$
0.8600	0.2267	$1.892 \times 10^{-3}$	0.238	0.204	$3.847 \times 10^{-1}$
0.8667	0.2267	$2.119 \times 10^{-3}$	0.216	0.185	$3.579 \times 10^{-1}$
0.8733	0.2267	$2.372 \times 10^{-3}$	0.201	0.168	$3.378 \times 10^{-1}$
0.8800	0.2267	$2.589 \times 10^{-3}$	0.193	0.159	$3.190 \times 10^{-1}$
0.8867	0.2267	$2.726 \times 10^{-3}$	0.190	0.152	$2.953 \times 10^{-1}$
0.8933	0.2267	$2.804 \times 10^{-3}$	0.188	0.148	$2.784 \times 10^{-1}$
0.9000	0.2267	$2.814 \times 10^{-3}$	0.188	0.143	$2.600 \times 10^{-1}$
0.9067	0.2267	$2.790 \times 10^{-3}$	0.189	0.142	$2.444 \times 10^{-1}$
0.9133	0.2267	$2.702 \times 10^{-3}$	0.192	0.141	$2.244 \times 10^{-1}$
0.9200	0.2267	$2.609 \times 10^{-3}$	0.194	0.138	$2.096 \times 10^{-1}$
0.9267	0.2267	$2.502 \times 10^{-3}$	0.197	0.136	$1.966 \times 10^{-1}$
0.9333	0.2267	$2.377 \times 10^{-3}$	0.201	0.135	$1.808 \times 10^{-1}$
0.9400	0.2267	$2.265 \times 10^{-3}$	0.204	0.132	$1.694 \times 10^{-1}$
0.9467	0.2267	$2.137 \times 10^{-3}$	0.208	0.130	$1.569 \times 10^{-1}$
0.9533	0.2267	$2.007 \times 10^{-3}$	0.210	0.128	$1.454 \times 10^{-1}$
0.9600	0.2267	$1.891 \times 10^{-3}$	0.213	0.125	$1.359 \times 10^{-1}$
0.9667	0.2267	$1.794 \times 10^{-3}$	0.215	0.122	$1.280 \times 10^{-1}$
0.9733	0.2267	$1.677 \times 10^{-3}$	0.218	0.119	$1.179 \times 10^{-1}$
0.9800	0.2267	$1.585 \times 10^{-3}$	0.222	0.116	$1.110 \times 10^{-1}$
0.9867	0.2267	$1.500 \times 10^{-3}$	0.224	0.113	$1.035 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9933	0.2267	$1.419 \times 10^{-3}$	0.226	0.111	$9.799 \times 10^{-2}$
1.0000	0.2267	$1.330 \times 10^{-3}$	0.229	0.107	$9.108 \times 10^{-2}$
0.6667	0.2333	$2.235 \times 10^{-4}$	1.000	$-5.135 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.6733	0.2333	$2.234 \times 10^{-4}$	1.000	$-5.922 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.6800	0.2333	$2.238 \times 10^{-4}$	1.000	$-4.238 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.6867	0.2333	$2.236 \times 10^{-4}$	1.000	$-2.094 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.6933	0.2333	$2.233 \times 10^{-4}$	1.000	$-3.175 \times 10^{-4}$	$7.362 \times 10^{-3}$
0.7000	0.2333	$2.240 \times 10^{-4}$	1.000	$1.234 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.7067	0.2333	$2.243 \times 10^{-4}$	1.000	$2.661 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.7133	0.2333	$2.235 \times 10^{-4}$	1.000	$-2.079 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.7200	0.2333	$2.243 \times 10^{-4}$	1.001	$1.238 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.7267	0.2333	$2.244 \times 10^{-4}$	1.000	$2.333 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.7333	0.2333	$2.244 \times 10^{-4}$	1.000	$2.255 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.7400	0.2333	$2.244 \times 10^{-4}$	1.000	$1.115 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.7467	0.2333	$2.236 \times 10^{-4}$	1.000	$-3.176 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.7533	0.2333	$2.246 \times 10^{-4}$	1.000	$-5.851 \times 10^{-4}$	$7.410 \times 10^{-3}$
0.7600	0.2333	$2.246 \times 10^{-4}$	1.000	$-2.562 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.7667	0.2333	$2.247 \times 10^{-4}$	1.000	$-6.140 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.7733	0.2333	$2.234 \times 10^{-4}$	0.999	$1.790 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.7800	0.2333	$2.267 \times 10^{-4}$	0.997	$2.079 \times 10^{-3}$	$8.505 \times 10^{-3}$
0.7867	0.2333	$2.395 \times 10^{-4}$	0.966	$2.640 \times 10^{-2}$	$1.834 \times 10^{-2}$
0.7933	0.2333	$3.783 \times 10^{-4}$	0.782	0.182	$9.637 \times 10^{-2}$
0.8000	0.2333	$8.209 \times 10^{-4}$	0.576	0.371	$2.975 \times 10^{-1}$
0.8067	0.2333	$1.282 \times 10^{-3}$	0.526	0.443	$4.556 \times 10^{-1}$
0.8133	0.2333	$1.492 \times 10^{-3}$	0.528	0.460	$4.916 \times 10^{-1}$
0.8200	0.2333	$1.568 \times 10^{-3}$	0.524	0.457	$4.875 \times 10^{-1}$
0.8267	0.2333	$1.557 \times 10^{-3}$	0.510	0.443	$4.745 \times 10^{-1}$
0.8333	0.2333	$1.505 \times 10^{-3}$	0.479	0.411	$4.649 \times 10^{-1}$
0.8400	0.2333	$1.427 \times 10^{-3}$	0.436	0.370	$4.391 \times 10^{-1}$
0.8467	0.2333	$1.404 \times 10^{-3}$	0.385	0.324	$4.204 \times 10^{-1}$
0.8533	0.2333	$1.442 \times 10^{-3}$	0.336	0.282	$4.052 \times 10^{-1}$
0.8600	0.2333	$1.532 \times 10^{-3}$	0.294	0.243	$3.794 \times 10^{-1}$
0.8667	0.2333	$1.701 \times 10^{-3}$	0.261	0.215	$3.592 \times 10^{-1}$
0.8733	0.2333	$1.919 \times 10^{-3}$	0.235	0.191	$3.383 \times 10^{-1}$
0.8800	0.2333	$2.122 \times 10^{-3}$	0.219	0.175	$3.170 \times 10^{-1}$
0.8867	0.2333	$2.333 \times 10^{-3}$	0.208	0.163	$2.964 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8933	0.2333	$2.505 \times 10^{-3}$	0.202	0.156	$2.814 \times 10^{-1}$
0.9000	0.2333	$2.584 \times 10^{-3}$	0.198	0.148	$2.618 \times 10^{-1}$
0.9067	0.2333	$2.618 \times 10^{-3}$	0.198	0.145	$2.451 \times 10^{-1}$
0.9133	0.2333	$2.598 \times 10^{-3}$	0.199	0.141	$2.272 \times 10^{-1}$
0.9200	0.2333	$2.549 \times 10^{-3}$	0.199	0.139	$2.123 \times 10^{-1}$
0.9267	0.2333	$2.484 \times 10^{-3}$	0.202	0.137	$1.974 \times 10^{-1}$
0.9333	0.2333	$2.381 \times 10^{-3}$	0.204	0.135	$1.837 \times 10^{-1}$
0.9400	0.2333	$2.304 \times 10^{-3}$	0.206	0.133	$1.722 \times 10^{-1}$
0.9467	0.2333	$2.182 \times 10^{-3}$	0.209	0.130	$1.606 \times 10^{-1}$
0.9533	0.2333	$2.072 \times 10^{-3}$	0.212	0.127	$1.494 \times 10^{-1}$
0.9600	0.2333	$1.948 \times 10^{-3}$	0.216	0.125	$1.378 \times 10^{-1}$
0.9667	0.2333	$1.857 \times 10^{-3}$	0.217	0.122	$1.305 \times 10^{-1}$
0.9733	0.2333	$1.764 \times 10^{-3}$	0.221	0.120	$1.224 \times 10^{-1}$
0.9800	0.2333	$1.655 \times 10^{-3}$	0.224	0.116	$1.132 \times 10^{-1}$
0.9867	0.2333	$1.579 \times 10^{-3}$	0.226	0.114	$1.070 \times 10^{-1}$
0.9933	0.2333	$1.489 \times 10^{-3}$	0.227	0.110	$1.005 \times 10^{-1}$
1.0000	0.2333	$1.415 \times 10^{-3}$	0.230	0.108	$9.439 \times 10^{-2}$
0.6667	0.2400	$2.242 \times 10^{-4}$	1.000	$-2.879 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.6733	0.2400	$2.241 \times 10^{-4}$	1.000	$-4.229 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.6800	0.2400	$2.243 \times 10^{-4}$	1.000	$-4.150 \times 10^{-4}$	$7.386 \times 10^{-3}$
0.6867	0.2400	$2.249 \times 10^{-4}$	1.000	$-3.117 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.6933	0.2400	$2.253 \times 10^{-4}$	1.000	$-2.315 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.7000	0.2400	$2.251 \times 10^{-4}$	1.000	$-1.784 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.7067	0.2400	$2.245 \times 10^{-4}$	1.000	$-3.509 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.7133	0.2400	$2.246 \times 10^{-4}$	0.999	$-6.799 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.7200	0.2400	$2.249 \times 10^{-4}$	1.000	$-6.538 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.7267	0.2400	$2.249 \times 10^{-4}$	1.000	$-6.966 \times 10^{-4}$	$7.383 \times 10^{-3}$
0.7333	0.2400	$2.246 \times 10^{-4}$	1.000	$-5.910 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.7400	0.2400	$2.246 \times 10^{-4}$	1.000	$-4.053 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.7467	0.2400	$2.245 \times 10^{-4}$	1.000	$-5.562 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.7533	0.2400	$2.242 \times 10^{-4}$	1.000	$-4.362 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.7600	0.2400	$2.243 \times 10^{-4}$	1.000	$-1.823 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.7667	0.2400	$2.250 \times 10^{-4}$	1.000	$-1.979 \times 10^{-5}$	$7.407 \times 10^{-3}$
0.7733	0.2400	$2.253 \times 10^{-4}$	1.000	$6.957 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.7800	0.2400	$2.271 \times 10^{-4}$	1.000	$4.824 \times 10^{-4}$	$7.436 \times 10^{-3}$
0.7867	0.2400	$2.267 \times 10^{-4}$	0.995	$4.791 \times 10^{-3}$	$9.131 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7933	0.2400	$2.504 \times 10^{-4}$	0.938	$5.177 \times 10^{-2}$	$2.825 \times 10^{-2}$
0.8000	0.2400	$4.281 \times 10^{-4}$	0.738	0.221	$1.240 \times 10^{-1}$
0.8067	0.2400	$8.989 \times 10^{-4}$	0.564	0.384	$3.299 \times 10^{-1}$
0.8133	0.2400	$1.286 \times 10^{-3}$	0.524	0.440	$4.616 \times 10^{-1}$
0.8200	0.2400	$1.451 \times 10^{-3}$	0.526	0.454	$4.844 \times 10^{-1}$
0.8267	0.2400	$1.515 \times 10^{-3}$	0.524	0.454	$4.758 \times 10^{-1}$
0.8333	0.2400	$1.510 \times 10^{-3}$	0.513	0.439	$4.641 \times 10^{-1}$
0.8400	0.2400	$1.464 \times 10^{-3}$	0.487	0.411	$4.456 \times 10^{-1}$
0.8467	0.2400	$1.382 \times 10^{-3}$	0.452	0.377	$4.188 \times 10^{-1}$
0.8533	0.2400	$1.348 \times 10^{-3}$	0.406	0.335	$4.006 \times 10^{-1}$
0.8600	0.2400	$1.362 \times 10^{-3}$	0.357	0.291	$3.786 \times 10^{-1}$
0.8667	0.2400	$1.425 \times 10^{-3}$	0.315	0.256	$3.590 \times 10^{-1}$
0.8733	0.2400	$1.558 \times 10^{-3}$	0.279	0.224	$3.415 \times 10^{-1}$
0.8800	0.2400	$1.722 \times 10^{-3}$	0.253	0.200	$3.181 \times 10^{-1}$
0.8867	0.2400	$1.923 \times 10^{-3}$	0.235	0.181	$3.035 \times 10^{-1}$
0.8933	0.2400	$2.109 \times 10^{-3}$	0.222	0.169	$2.847 \times 10^{-1}$
0.9000	0.2400	$2.254 \times 10^{-3}$	0.214	0.159	$2.656 \times 10^{-1}$
0.9067	0.2400	$2.352 \times 10^{-3}$	0.210	0.152	$2.466 \times 10^{-1}$
0.9133	0.2400	$2.440 \times 10^{-3}$	0.207	0.146	$2.338 \times 10^{-1}$
0.9200	0.2400	$2.433 \times 10^{-3}$	0.207	0.142	$2.163 \times 10^{-1}$
0.9267	0.2400	$2.418 \times 10^{-3}$	0.208	0.138	$2.028 \times 10^{-1}$
0.9333	0.2400	$2.380 \times 10^{-3}$	0.208	0.135	$1.908 \times 10^{-1}$
0.9400	0.2400	$2.305 \times 10^{-3}$	0.210	0.132	$1.770 \times 10^{-1}$
0.9467	0.2400	$2.214 \times 10^{-3}$	0.212	0.130	$1.653 \times 10^{-1}$
0.9533	0.2400	$2.117 \times 10^{-3}$	0.215	0.128	$1.536 \times 10^{-1}$
0.9600	0.2400	$2.018 \times 10^{-3}$	0.219	0.125	$1.435 \times 10^{-1}$
0.9667	0.2400	$1.917 \times 10^{-3}$	0.220	0.123	$1.341 \times 10^{-1}$
0.9733	0.2400	$1.828 \times 10^{-3}$	0.222	0.120	$1.262 \times 10^{-1}$
0.9800	0.2400	$1.729 \times 10^{-3}$	0.225	0.117	$1.173 \times 10^{-1}$
0.9867	0.2400	$1.629 \times 10^{-3}$	0.228	0.115	$1.084 \times 10^{-1}$
0.9933	0.2400	$1.560 \times 10^{-3}$	0.229	0.111	$1.038 \times 10^{-1}$
1.0000	0.2400	$1.478 \times 10^{-3}$	0.231	0.109	$9.707 \times 10^{-2}$
0.6667	0.2467	$2.235 \times 10^{-4}$	1.000	$-1.549 \times 10^{-5}$	$7.365 \times 10^{-3}$
0.6733	0.2467	$2.239 \times 10^{-4}$	1.000	$1.149 \times 10^{-5}$	$7.394 \times 10^{-3}$
0.6800	0.2467	$2.240 \times 10^{-4}$	1.000	$-2.800 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.6867	0.2467	$2.242 \times 10^{-4}$	1.000	$-5.276 \times 10^{-4}$	$7.392 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.6933	0.2467	$2.246 \times 10^{-4}$	1.000	$-2.585 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.7000	0.2467	$2.240 \times 10^{-4}$	1.000	$-3.630 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.7067	0.2467	$2.241 \times 10^{-4}$	1.000	$-4.529 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.7133	0.2467	$2.250 \times 10^{-4}$	1.000	$-5.208 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.7200	0.2467	$2.244 \times 10^{-4}$	1.000	$-6.762 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.7267	0.2467	$2.239 \times 10^{-4}$	1.000	$-9.398 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.7333	0.2467	$2.233 \times 10^{-4}$	1.000	$-8.889 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.7400	0.2467	$2.230 \times 10^{-4}$	1.000	$-6.346 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.7467	0.2467	$2.235 \times 10^{-4}$	1.000	$-6.900 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.7533	0.2467	$2.235 \times 10^{-4}$	1.000	$-4.774 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.7600	0.2467	$2.234 \times 10^{-4}$	1.000	$-1.203 \times 10^{-4}$	$7.345 \times 10^{-3}$
0.7667	0.2467	$2.238 \times 10^{-4}$	1.000	$5.945 \times 10^{-5}$	$7.383 \times 10^{-3}$
0.7733	0.2467	$2.216 \times 10^{-4}$	0.999	$-5.596 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.7800	0.2467	$2.216 \times 10^{-4}$	0.999	$3.397 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.7867	0.2467	$2.223 \times 10^{-4}$	0.999	$5.302 \times 10^{-4}$	$7.524 \times 10^{-3}$
0.7933	0.2467	$2.242 \times 10^{-4}$	0.991	$8.699 \times 10^{-3}$	$1.013 \times 10^{-2}$
0.8000	0.2467	$2.613 \times 10^{-4}$	0.914	$7.317 \times 10^{-2}$	$3.630 \times 10^{-2}$
0.8067	0.2467	$4.913 \times 10^{-4}$	0.700	0.258	$1.536 \times 10^{-1}$
0.8133	0.2467	$9.645 \times 10^{-4}$	0.553	0.395	$3.568 \times 10^{-1}$
0.8200	0.2467	$1.281 \times 10^{-3}$	0.524	0.437	$4.598 \times 10^{-1}$
0.8267	0.2467	$1.404 \times 10^{-3}$	0.528	0.449	$4.738 \times 10^{-1}$
0.8333	0.2467	$1.463 \times 10^{-3}$	0.527	0.451	$4.649 \times 10^{-1}$
0.8400	0.2467	$1.453 \times 10^{-3}$	0.516	0.437	$4.467 \times 10^{-1}$
0.8467	0.2467	$1.402 \times 10^{-3}$	0.499	0.413	$4.219 \times 10^{-1}$
0.8533	0.2467	$1.336 \times 10^{-3}$	0.464	0.380	$4.003 \times 10^{-1}$
0.8600	0.2467	$1.306 \times 10^{-3}$	0.423	0.339	$3.823 \times 10^{-1}$
0.8667	0.2467	$1.302 \times 10^{-3}$	0.381	0.300	$3.625 \times 10^{-1}$
0.8733	0.2467	$1.333 \times 10^{-3}$	0.339	0.264	$3.412 \times 10^{-1}$
0.8800	0.2467	$1.433 \times 10^{-3}$	0.303	0.236	$3.219 \times 10^{-1}$
0.8867	0.2467	$1.551 \times 10^{-3}$	0.275	0.209	$3.029 \times 10^{-1}$
0.8933	0.2467	$1.723 \times 10^{-3}$	0.253	0.190	$2.863 \times 10^{-1}$
0.9000	0.2467	$1.889 \times 10^{-3}$	0.237	0.175	$2.695 \times 10^{-1}$
0.9067	0.2467	$2.034 \times 10^{-3}$	0.228	0.163	$2.526 \times 10^{-1}$
0.9133	0.2467	$2.156 \times 10^{-3}$	0.222	0.154	$2.379 \times 10^{-1}$
0.9200	0.2467	$2.239 \times 10^{-3}$	0.218	0.148	$2.227 \times 10^{-1}$
0.9267	0.2467	$2.268 \times 10^{-3}$	0.216	0.143	$2.071 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9333	0.2467	$2.280 \times 10^{-3}$	0.215	0.138	$1.954 \times 10^{-1}$
0.9400	0.2467	$2.250 \times 10^{-3}$	0.216	0.135	$1.810 \times 10^{-1}$
0.9467	0.2467	$2.202 \times 10^{-3}$	0.217	0.132	$1.707 \times 10^{-1}$
0.9533	0.2467	$2.121 \times 10^{-3}$	0.218	0.129	$1.573 \times 10^{-1}$
0.9600	0.2467	$2.036 \times 10^{-3}$	0.221	0.126	$1.469 \times 10^{-1}$
0.9667	0.2467	$1.963 \times 10^{-3}$	0.223	0.125	$1.374 \times 10^{-1}$
0.9733	0.2467	$1.869 \times 10^{-3}$	0.225	0.121	$1.291 \times 10^{-1}$
0.9800	0.2467	$1.789 \times 10^{-3}$	0.226	0.119	$1.213 \times 10^{-1}$
0.9867	0.2467	$1.708 \times 10^{-3}$	0.229	0.116	$1.138 \times 10^{-1}$
0.9933	0.2467	$1.628 \times 10^{-3}$	0.231	0.113	$1.075 \times 10^{-1}$
1.0000	0.2467	$1.553 \times 10^{-3}$	0.233	0.109	$1.004 \times 10^{-1}$
0.6667	0.2533	$2.228 \times 10^{-4}$	1.000	$9.083 \times 10^{-5}$	$7.368 \times 10^{-3}$
0.6733	0.2533	$2.233 \times 10^{-4}$	1.000	$2.887 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.6800	0.2533	$2.239 \times 10^{-4}$	1.000	$3.952 \times 10^{-5}$	$7.407 \times 10^{-3}$
0.6867	0.2533	$2.228 \times 10^{-4}$	1.000	$-5.926 \times 10^{-4}$	$7.362 \times 10^{-3}$
0.6933	0.2533	$2.228 \times 10^{-4}$	1.001	$-2.458 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.7000	0.2533	$2.227 \times 10^{-4}$	1.000	$-2.830 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.7067	0.2533	$2.236 \times 10^{-4}$	1.000	$-2.873 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.7133	0.2533	$2.250 \times 10^{-4}$	1.000	$-1.379 \times 10^{-5}$	$7.433 \times 10^{-3}$
0.7200	0.2533	$2.231 \times 10^{-4}$	1.001	$-9.936 \times 10^{-5}$	$7.341 \times 10^{-3}$
0.7267	0.2533	$2.228 \times 10^{-4}$	1.000	$-1.062 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.7333	0.2533	$2.227 \times 10^{-4}$	1.000	$-2.571 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.7400	0.2533	$2.218 \times 10^{-4}$	1.001	$-3.604 \times 10^{-4}$	$7.292 \times 10^{-3}$
0.7467	0.2533	$2.225 \times 10^{-4}$	1.000	$-5.132 \times 10^{-4}$	$7.312 \times 10^{-3}$
0.7533	0.2533	$2.230 \times 10^{-4}$	1.000	$-3.159 \times 10^{-4}$	$7.322 \times 10^{-3}$
0.7600	0.2533	$2.232 \times 10^{-4}$	1.000	$-8.161 \times 10^{-5}$	$7.320 \times 10^{-3}$
0.7667	0.2533	$2.234 \times 10^{-4}$	1.000	$-1.243 \times 10^{-6}$	$7.352 \times 10^{-3}$
0.7733	0.2533	$2.241 \times 10^{-4}$	1.000	$-1.772 \times 10^{-4}$	$7.333 \times 10^{-3}$
0.7800	0.2533	$2.234 \times 10^{-4}$	1.000	$2.406 \times 10^{-4}$	$7.354 \times 10^{-3}$
0.7867	0.2533	$2.223 \times 10^{-4}$	1.000	$2.877 \times 10^{-4}$	$7.322 \times 10^{-3}$
0.7933	0.2533	$2.202 \times 10^{-4}$	1.001	$8.017 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.8000	0.2533	$2.244 \times 10^{-4}$	0.990	$9.337 \times 10^{-3}$	$1.090 \times 10^{-2}$
0.8067	0.2533	$2.801 \times 10^{-4}$	0.882	$9.932 \times 10^{-2}$	$4.810 \times 10^{-2}$
0.8133	0.2533	$5.528 \times 10^{-4}$	0.654	0.294	$1.871 \times 10^{-1}$
0.8200	0.2533	$1.019 \times 10^{-3}$	0.542	0.402	$3.783 \times 10^{-1}$
0.8267	0.2533	$1.258 \times 10^{-3}$	0.525	0.436	$4.544 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_0$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8333	0.2533	$1.351 \times 10^{-3}$	0.529	0.447	$4.583 \times 10^{-1}$
0.8400	0.2533	$1.399 \times 10^{-3}$	0.530	0.449	$4.487 \times 10^{-1}$
0.8467	0.2533	$1.395 \times 10^{-3}$	0.524	0.435	$4.266 \times 10^{-1}$
0.8533	0.2533	$1.354 \times 10^{-3}$	0.507	0.414	$4.065 \times 10^{-1}$
0.8600	0.2533	$1.296 \times 10^{-3}$	0.478	0.384	$3.842 \times 10^{-1}$
0.8667	0.2533	$1.244 \times 10^{-3}$	0.442	0.347	$3.619 \times 10^{-1}$
0.8733	0.2533	$1.238 \times 10^{-3}$	0.402	0.308	$3.441 \times 10^{-1}$
0.8800	0.2533	$1.258 \times 10^{-3}$	0.363	0.276	$3.254 \times 10^{-1}$
0.8867	0.2533	$1.325 \times 10^{-3}$	0.326	0.242	$3.103 \times 10^{-1}$
0.8933	0.2533	$1.424 \times 10^{-3}$	0.296	0.218	$2.909 \times 10^{-1}$
0.9000	0.2533	$1.556 \times 10^{-3}$	0.271	0.198	$2.742 \times 10^{-1}$
0.9067	0.2533	$1.696 \times 10^{-3}$	0.255	0.181	$2.587 \times 10^{-1}$
0.9133	0.2533	$1.817 \times 10^{-3}$	0.243	0.168	$2.380 \times 10^{-1}$
0.9200	0.2533	$1.947 \times 10^{-3}$	0.235	0.158	$2.275 \times 10^{-1}$
0.9267	0.2533	$2.053 \times 10^{-3}$	0.229	0.150	$2.135 \times 10^{-1}$
0.9333	0.2533	$2.109 \times 10^{-3}$	0.226	0.144	$2.005 \times 10^{-1}$
0.9400	0.2533	$2.136 \times 10^{-3}$	0.224	0.140	$1.865 \times 10^{-1}$
0.9467	0.2533	$2.124 \times 10^{-3}$	0.224	0.135	$1.743 \times 10^{-1}$
0.9533	0.2533	$2.100 \times 10^{-3}$	0.225	0.131	$1.636 \times 10^{-1}$
0.9600	0.2533	$2.043 \times 10^{-3}$	0.226	0.128	$1.518 \times 10^{-1}$
0.9667	0.2533	$1.961 \times 10^{-3}$	0.227	0.127	$1.406 \times 10^{-1}$
0.9733	0.2533	$1.918 \times 10^{-3}$	0.228	0.122	$1.343 \times 10^{-1}$
0.9800	0.2533	$1.839 \times 10^{-3}$	0.230	0.120	$1.250 \times 10^{-1}$
0.9867	0.2533	$1.774 \times 10^{-3}$	0.231	0.117	$1.185 \times 10^{-1}$
0.9933	0.2533	$1.698 \times 10^{-3}$	0.234	0.114	$1.117 \times 10^{-1}$
1.0000	0.2533	$1.628 \times 10^{-3}$	0.236	0.111	$1.053 \times 10^{-1}$
0.6667	0.2600	$2.233 \times 10^{-4}$	1.000	$4.234 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.6733	0.2600	$2.246 \times 10^{-4}$	1.001	$2.633 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.6800	0.2600	$2.253 \times 10^{-4}$	1.000	$2.838 \times 10^{-4}$	$7.428 \times 10^{-3}$
0.6867	0.2600	$2.257 \times 10^{-4}$	1.000	$4.189 \times 10^{-4}$	$7.472 \times 10^{-3}$
0.6933	0.2600	$2.243 \times 10^{-4}$	1.001	$-2.811 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.7000	0.2600	$2.238 \times 10^{-4}$	1.000	$-2.392 \times 10^{-4}$	$7.387 \times 10^{-3}$
0.7067	0.2600	$2.238 \times 10^{-4}$	1.000	$-4.097 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.7133	0.2600	$2.242 \times 10^{-4}$	1.000	$-1.101 \times 10^{-3}$	$7.374 \times 10^{-3}$
0.7200	0.2600	$2.236 \times 10^{-4}$	1.000	$-2.439 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.7267	0.2600	$2.235 \times 10^{-4}$	1.000	$-5.678 \times 10^{-5}$	$7.364 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7333	0.2600	$2.241 \times 10^{-4}$	1.000	$-2.101 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.7400	0.2600	$2.255 \times 10^{-4}$	1.000	$-5.451 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.7467	0.2600	$2.235 \times 10^{-4}$	1.000	$-4.687 \times 10^{-4}$	$7.377 \times 10^{-3}$
0.7533	0.2600	$2.246 \times 10^{-4}$	1.000	$-2.420 \times 10^{-5}$	$7.395 \times 10^{-3}$
0.7600	0.2600	$2.253 \times 10^{-4}$	1.000	$3.412 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.7667	0.2600	$2.225 \times 10^{-4}$	0.999	$1.949 \times 10^{-4}$	$7.300 \times 10^{-3}$
0.7733	0.2600	$2.256 \times 10^{-4}$	1.000	$3.187 \times 10^{-4}$	$7.373 \times 10^{-3}$
0.7800	0.2600	$2.251 \times 10^{-4}$	0.999	$-6.652 \times 10^{-5}$	$7.393 \times 10^{-3}$
0.7867	0.2600	$2.237 \times 10^{-4}$	0.999	$9.670 \times 10^{-5}$	$7.363 \times 10^{-3}$
0.7933	0.2600	$2.260 \times 10^{-4}$	0.999	$-7.490 \times 10^{-4}$	$7.472 \times 10^{-3}$
0.8000	0.2600	$2.259 \times 10^{-4}$	0.998	$1.027 \times 10^{-3}$	$8.058 \times 10^{-3}$
0.8067	0.2600	$2.315 \times 10^{-4}$	0.978	$1.707 \times 10^{-2}$	$1.442 \times 10^{-2}$
0.8133	0.2600	$3.082 \times 10^{-4}$	0.855	0.121	$6.079 \times 10^{-2}$
0.8200	0.2600	$6.266 \times 10^{-4}$	0.634	0.312	$2.168 \times 10^{-1}$
0.8267	0.2600	$1.057 \times 10^{-3}$	0.539	0.405	$3.932 \times 10^{-1}$
0.8333	0.2600	$1.251 \times 10^{-3}$	0.529	0.432	$4.524 \times 10^{-1}$
0.8400	0.2600	$1.320 \times 10^{-3}$	0.532	0.442	$4.520 \times 10^{-1}$
0.8467	0.2600	$1.355 \times 10^{-3}$	0.534	0.441	$4.352 \times 10^{-1}$
0.8533	0.2600	$1.347 \times 10^{-3}$	0.531	0.431	$4.145 \times 10^{-1}$
0.8600	0.2600	$1.307 \times 10^{-3}$	0.518	0.414	$3.922 \times 10^{-1}$
0.8667	0.2600	$1.253 \times 10^{-3}$	0.494	0.384	$3.675 \times 10^{-1}$
0.8733	0.2600	$1.206 \times 10^{-3}$	0.463	0.352	$3.464 \times 10^{-1}$
0.8800	0.2600	$1.181 \times 10^{-3}$	0.426	0.319	$3.267 \times 10^{-1}$
0.8867	0.2600	$1.195 \times 10^{-3}$	0.386	0.284	$3.110 \times 10^{-1}$
0.8933	0.2600	$1.226 \times 10^{-3}$	0.352	0.254	$2.933 \times 10^{-1}$
0.9000	0.2600	$1.305 \times 10^{-3}$	0.318	0.229	$2.777 \times 10^{-1}$
0.9067	0.2600	$1.405 \times 10^{-3}$	0.294	0.207	$2.617 \times 10^{-1}$
0.9133	0.2600	$1.512 \times 10^{-3}$	0.274	0.189	$2.452 \times 10^{-1}$
0.9200	0.2600	$1.629 \times 10^{-3}$	0.260	0.174	$2.308 \times 10^{-1}$
0.9267	0.2600	$1.744 \times 10^{-3}$	0.249	0.164	$2.154 \times 10^{-1}$
0.9333	0.2600	$1.831 \times 10^{-3}$	0.243	0.155	$2.017 \times 10^{-1}$
0.9400	0.2600	$1.909 \times 10^{-3}$	0.238	0.148	$1.898 \times 10^{-1}$
0.9467	0.2600	$1.969 \times 10^{-3}$	0.234	0.141	$1.793 \times 10^{-1}$
0.9533	0.2600	$1.999 \times 10^{-3}$	0.232	0.136	$1.696 \times 10^{-1}$
0.9600	0.2600	$1.985 \times 10^{-3}$	0.231	0.131	$1.583 \times 10^{-1}$
0.9667	0.2600	$1.955 \times 10^{-3}$	0.232	0.127	$1.492 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.9733	0.2600	$1.920 \times 10^{-3}$	0.232	0.125	$1.399 \times 10^{-1}$
0.9800	0.2600	$1.863 \times 10^{-3}$	0.233	0.121	$1.315 \times 10^{-1}$
0.9867	0.2600	$1.815 \times 10^{-3}$	0.234	0.119	$1.235 \times 10^{-1}$
0.9933	0.2600	$1.736 \times 10^{-3}$	0.236	0.115	$1.155 \times 10^{-1}$
1.0000	0.2600	$1.673 \times 10^{-3}$	0.238	0.113	$1.086 \times 10^{-1}$
0.6667	0.2667	$2.263 \times 10^{-4}$	0.999	$-2.860 \times 10^{-4}$	$7.463 \times 10^{-3}$
0.6733	0.2667	$2.251 \times 10^{-4}$	1.000	$-1.282 \times 10^{-4}$	$7.431 \times 10^{-3}$
0.6800	0.2667	$2.249 \times 10^{-4}$	1.000	$-6.576 \times 10^{-6}$	$7.431 \times 10^{-3}$
0.6867	0.2667	$2.249 \times 10^{-4}$	1.000	$-9.835 \times 10^{-5}$	$7.424 \times 10^{-3}$
0.6933	0.2667	$2.262 \times 10^{-4}$	1.000	$1.174 \times 10^{-4}$	$7.443 \times 10^{-3}$
0.7000	0.2667	$2.249 \times 10^{-4}$	1.000	$3.514 \times 10^{-4}$	$7.437 \times 10^{-3}$
0.7067	0.2667	$2.249 \times 10^{-4}$	1.000	$3.569 \times 10^{-4}$	$7.438 \times 10^{-3}$
0.7133	0.2667	$2.264 \times 10^{-4}$	1.000	$7.481 \times 10^{-5}$	$7.425 \times 10^{-3}$
0.7200	0.2667	$2.254 \times 10^{-4}$	1.000	$-2.779 \times 10^{-4}$	$7.447 \times 10^{-3}$
0.7267	0.2667	$2.250 \times 10^{-4}$	1.000	$3.631 \times 10^{-4}$	$7.428 \times 10^{-3}$
0.7333	0.2667	$2.253 \times 10^{-4}$	1.000	$5.187 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.7400	0.2667	$2.254 \times 10^{-4}$	1.000	$-3.823 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.7467	0.2667	$2.238 \times 10^{-4}$	1.000	$-1.465 \times 10^{-4}$	$7.358 \times 10^{-3}$
0.7533	0.2667	$2.247 \times 10^{-4}$	1.000	$-1.310 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.7600	0.2667	$2.252 \times 10^{-4}$	1.000	$-2.183 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.7667	0.2667	$2.231 \times 10^{-4}$	1.000	$-7.286 \times 10^{-5}$	$7.330 \times 10^{-3}$
0.7733	0.2667	$2.244 \times 10^{-4}$	1.000	$-4.348 \times 10^{-4}$	$7.390 \times 10^{-3}$
0.7800	0.2667	$2.249 \times 10^{-4}$	1.000	$-2.243 \times 10^{-4}$	$7.418 \times 10^{-3}$
0.7867	0.2667	$2.245 \times 10^{-4}$	0.999	$1.132 \times 10^{-5}$	$7.412 \times 10^{-3}$
0.7933	0.2667	$2.230 \times 10^{-4}$	0.999	$-1.497 \times 10^{-3}$	$7.412 \times 10^{-3}$
0.8000	0.2667	$2.250 \times 10^{-4}$	0.998	$1.517 \times 10^{-5}$	$7.533 \times 10^{-3}$
0.8067	0.2667	$2.256 \times 10^{-4}$	0.996	$2.839 \times 10^{-3}$	$8.488 \times 10^{-3}$
0.8133	0.2667	$2.376 \times 10^{-4}$	0.972	$2.397 \times 10^{-2}$	$1.640 \times 10^{-2}$
0.8200	0.2667	$3.374 \times 10^{-4}$	0.822	0.150	$7.538 \times 10^{-2}$
0.8267	0.2667	$6.901 \times 10^{-4}$	0.617	0.329	$2.411 \times 10^{-1}$
0.8333	0.2667	$1.084 \times 10^{-3}$	0.541	0.410	$4.023 \times 10^{-1}$
0.8400	0.2667	$1.229 \times 10^{-3}$	0.532	0.427	$4.437 \times 10^{-1}$
0.8467	0.2667	$1.270 \times 10^{-3}$	0.537	0.439	$4.332 \times 10^{-1}$
0.8533	0.2667	$1.297 \times 10^{-3}$	0.536	0.438	$4.159 \times 10^{-1}$
0.8600	0.2667	$1.297 \times 10^{-3}$	0.539	0.429	$4.011 \times 10^{-1}$
0.8667	0.2667	$1.258 \times 10^{-3}$	0.529	0.414	$3.746 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.8733	0.2667	$1.204 \times 10^{-3}$	0.510	0.389	$3.489 \times 10^{-1}$
0.8800	0.2667	$1.167 \times 10^{-3}$	0.480	0.359	$3.314 \times 10^{-1}$
0.8867	0.2667	$1.145 \times 10^{-3}$	0.446	0.327	$3.154 \times 10^{-1}$
0.8933	0.2667	$1.137 \times 10^{-3}$	0.410	0.294	$2.974 \times 10^{-1}$
0.9000	0.2667	$1.151 \times 10^{-3}$	0.376	0.267	$2.803 \times 10^{-1}$
0.9067	0.2667	$1.199 \times 10^{-3}$	0.345	0.239	$2.654 \times 10^{-1}$
0.9133	0.2667	$1.282 \times 10^{-3}$	0.316	0.216	$2.508 \times 10^{-1}$
0.9200	0.2667	$1.357 \times 10^{-3}$	0.298	0.198	$2.348 \times 10^{-1}$
0.9267	0.2667	$1.463 \times 10^{-3}$	0.279	0.182	$2.221 \times 10^{-1}$
0.9333	0.2667	$1.563 \times 10^{-3}$	0.266	0.168	$2.090 \times 10^{-1}$
0.9400	0.2667	$1.661 \times 10^{-3}$	0.257	0.159	$1.974 \times 10^{-1}$
0.9467	0.2667	$1.744 \times 10^{-3}$	0.250	0.150	$1.868 \times 10^{-1}$
0.9533	0.2667	$1.812 \times 10^{-3}$	0.245	0.143	$1.764 \times 10^{-1}$
0.9600	0.2667	$1.841 \times 10^{-3}$	0.243	0.138	$1.644 \times 10^{-1}$
0.9667	0.2667	$1.854 \times 10^{-3}$	0.241	0.134	$1.543 \times 10^{-1}$
0.9733	0.2667	$1.851 \times 10^{-3}$	0.240	0.129	$1.447 \times 10^{-1}$
0.9800	0.2667	$1.836 \times 10^{-3}$	0.239	0.125	$1.364 \times 10^{-1}$
0.9867	0.2667	$1.797 \times 10^{-3}$	0.240	0.121	$1.296 \times 10^{-1}$
0.9933	0.2667	$1.760 \times 10^{-3}$	0.240	0.119	$1.215 \times 10^{-1}$
1.0000	0.2667	$1.703 \times 10^{-3}$	0.241	0.114	$1.145 \times 10^{-1}$
0.6667	0.2733	$2.248 \times 10^{-4}$	0.999	$-3.388 \times 10^{-5}$	$7.428 \times 10^{-3}$
0.6733	0.2733	$2.254 \times 10^{-4}$	0.999	$1.303 \times 10^{-5}$	$7.423 \times 10^{-3}$
0.6800	0.2733	$2.250 \times 10^{-4}$	1.000	$1.844 \times 10^{-5}$	$7.408 \times 10^{-3}$
0.6867	0.2733	$2.246 \times 10^{-4}$	0.999	$-2.530 \times 10^{-5}$	$7.412 \times 10^{-3}$
0.6933	0.2733	$2.248 \times 10^{-4}$	1.000	$5.447 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.7000	0.2733	$2.246 \times 10^{-4}$	1.000	$3.999 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.7067	0.2733	$2.244 \times 10^{-4}$	1.000	$3.027 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.7133	0.2733	$2.243 \times 10^{-4}$	1.000	$5.702 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.7200	0.2733	$2.247 \times 10^{-4}$	1.000	$5.426 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.7267	0.2733	$2.237 \times 10^{-4}$	1.000	$3.663 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.7333	0.2733	$2.233 \times 10^{-4}$	1.000	$3.192 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.7400	0.2733	$2.237 \times 10^{-4}$	1.000	$6.470 \times 10^{-4}$	$7.370 \times 10^{-3}$
0.7467	0.2733	$2.223 \times 10^{-4}$	1.000	$6.181 \times 10^{-4}$	$7.320 \times 10^{-3}$
0.7533	0.2733	$2.240 \times 10^{-4}$	1.000	$4.849 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.7600	0.2733	$2.251 \times 10^{-4}$	1.000	$3.987 \times 10^{-4}$	$7.432 \times 10^{-3}$
0.7667	0.2733	$2.222 \times 10^{-4}$	1.000	$7.513 \times 10^{-4}$	$7.313 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.7733	0.2733	$2.235 \times 10^{-4}$	1.000	$2.426 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.7800	0.2733	$2.234 \times 10^{-4}$	1.000	$2.088 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.7867	0.2733	$2.230 \times 10^{-4}$	1.000	$4.269 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.7933	0.2733	$2.240 \times 10^{-4}$	1.001	$4.371 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.8000	0.2733	$2.235 \times 10^{-4}$	1.000	$3.480 \times 10^{-4}$	$7.318 \times 10^{-3}$
0.8067	0.2733	$2.235 \times 10^{-4}$	1.001	$4.217 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.8133	0.2733	$2.270 \times 10^{-4}$	0.997	$2.780 \times 10^{-3}$	$8.553 \times 10^{-3}$
0.8200	0.2733	$2.411 \times 10^{-4}$	0.957	$3.826 \times 10^{-2}$	$2.158 \times 10^{-2}$
0.8267	0.2733	$3.619 \times 10^{-4}$	0.794	0.183	$9.070 \times 10^{-2}$
0.8333	0.2733	$7.406 \times 10^{-4}$	0.607	0.346	$2.615 \times 10^{-1}$
0.8400	0.2733	$1.094 \times 10^{-3}$	0.544	0.409	$4.039 \times 10^{-1}$
0.8467	0.2733	$1.205 \times 10^{-3}$	0.536	0.425	$4.321 \times 10^{-1}$
0.8533	0.2733	$1.239 \times 10^{-3}$	0.539	0.433	$4.237 \times 10^{-1}$
0.8600	0.2733	$1.252 \times 10^{-3}$	0.544	0.434	$4.038 \times 10^{-1}$
0.8667	0.2733	$1.245 \times 10^{-3}$	0.546	0.425	$3.844 \times 10^{-1}$
0.8733	0.2733	$1.217 \times 10^{-3}$	0.538	0.413	$3.608 \times 10^{-1}$
0.8800	0.2733	$1.172 \times 10^{-3}$	0.524	0.389	$3.408 \times 10^{-1}$
0.8867	0.2733	$1.140 \times 10^{-3}$	0.499	0.365	$3.217 \times 10^{-1}$
0.8933	0.2733	$1.101 \times 10^{-3}$	0.468	0.335	$3.029 \times 10^{-1}$
0.9000	0.2733	$1.069 \times 10^{-3}$	0.436	0.306	$2.802 \times 10^{-1}$
0.9067	0.2733	$1.085 \times 10^{-3}$	0.402	0.276	$2.693 \times 10^{-1}$
0.9133	0.2733	$1.113 \times 10^{-3}$	0.368	0.250	$2.547 \times 10^{-1}$
0.9200	0.2733	$1.156 \times 10^{-3}$	0.343	0.226	$2.387 \times 10^{-1}$
0.9267	0.2733	$1.232 \times 10^{-3}$	0.319	0.205	$2.281 \times 10^{-1}$
0.9333	0.2733	$1.308 \times 10^{-3}$	0.300	0.189	$2.142 \times 10^{-1}$
0.9400	0.2733	$1.408 \times 10^{-3}$	0.283	0.174	$2.023 \times 10^{-1}$
0.9467	0.2733	$1.500 \times 10^{-3}$	0.273	0.164	$1.913 \times 10^{-1}$
0.9533	0.2733	$1.565 \times 10^{-3}$	0.266	0.156	$1.785 \times 10^{-1}$
0.9600	0.2733	$1.634 \times 10^{-3}$	0.259	0.147	$1.696 \times 10^{-1}$
0.9667	0.2733	$1.694 \times 10^{-3}$	0.254	0.140	$1.598 \times 10^{-1}$
0.9733	0.2733	$1.727 \times 10^{-3}$	0.252	0.134	$1.512 \times 10^{-1}$
0.9800	0.2733	$1.739 \times 10^{-3}$	0.249	0.129	$1.415 \times 10^{-1}$
0.9867	0.2733	$1.737 \times 10^{-3}$	0.247	0.125	$1.342 \times 10^{-1}$
0.9933	0.2733	$1.722 \times 10^{-3}$	0.246	0.122	$1.265 \times 10^{-1}$
1.0000	0.2733	$1.677 \times 10^{-3}$	0.247	0.118	$1.185 \times 10^{-1}$
0.6667	0.2800	$2.239 \times 10^{-4}$	0.999	$1.948 \times 10^{-4}$	$7.378 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.6733	0.2800	$2.246 \times 10^{-4}$	0.999	$2.242 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.6800	0.2800	$2.253 \times 10^{-4}$	0.999	$2.056 \times 10^{-4}$	$7.410 \times 10^{-3}$
0.6867	0.2800	$2.246 \times 10^{-4}$	0.999	$3.104 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.6933	0.2800	$2.241 \times 10^{-4}$	0.999	$5.850 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.7000	0.2800	$2.245 \times 10^{-4}$	0.999	$1.064 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.7067	0.2800	$2.244 \times 10^{-4}$	1.000	$1.202 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.7133	0.2800	$2.238 \times 10^{-4}$	1.000	$8.595 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.7200	0.2800	$2.245 \times 10^{-4}$	1.000	$6.501 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.7267	0.2800	$2.243 \times 10^{-4}$	0.999	$2.623 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.7333	0.2800	$2.239 \times 10^{-4}$	1.000	$3.732 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.7400	0.2800	$2.239 \times 10^{-4}$	1.000	$1.048 \times 10^{-3}$	$7.376 \times 10^{-3}$
0.7467	0.2800	$2.231 \times 10^{-4}$	1.000	$9.108 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.7533	0.2800	$2.239 \times 10^{-4}$	1.000	$5.910 \times 10^{-4}$	$7.379 \times 10^{-3}$
0.7600	0.2800	$2.244 \times 10^{-4}$	1.000	$5.561 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.7667	0.2800	$2.234 \times 10^{-4}$	1.000	$1.103 \times 10^{-3}$	$7.327 \times 10^{-3}$
0.7733	0.2800	$2.239 \times 10^{-4}$	1.000	$7.014 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.7800	0.2800	$2.233 \times 10^{-4}$	1.000	$3.676 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.7867	0.2800	$2.223 \times 10^{-4}$	1.000	$5.118 \times 10^{-4}$	$7.296 \times 10^{-3}$
0.7933	0.2800	$2.221 \times 10^{-4}$	1.000	$8.919 \times 10^{-4}$	$7.311 \times 10^{-3}$
0.8000	0.2800	$2.223 \times 10^{-4}$	1.000	$5.521 \times 10^{-4}$	$7.323 \times 10^{-3}$
0.8067	0.2800	$2.229 \times 10^{-4}$	1.000	$5.798 \times 10^{-5}$	$7.336 \times 10^{-3}$
0.8133	0.2800	$2.225 \times 10^{-4}$	1.000	$4.869 \times 10^{-4}$	$7.450 \times 10^{-3}$
0.8200	0.2800	$2.239 \times 10^{-4}$	0.994	$4.304 \times 10^{-3}$	$9.037 \times 10^{-3}$
0.8267	0.2800	$2.480 \times 10^{-4}$	0.944	$4.806 \times 10^{-2}$	$2.599 \times 10^{-2}$
0.8333	0.2800	$4.011 \times 10^{-4}$	0.772	0.201	$1.055 \times 10^{-1}$
0.8400	0.2800	$7.839 \times 10^{-4}$	0.600	0.353	$2.788 \times 10^{-1}$
0.8467	0.2800	$1.100 \times 10^{-3}$	0.550	0.407	$4.040 \times 10^{-1}$
0.8533	0.2800	$1.188 \times 10^{-3}$	0.542	0.419	$4.273 \times 10^{-1}$
0.8600	0.2800	$1.202 \times 10^{-3}$	0.548	0.425	$4.128 \times 10^{-1}$
0.8667	0.2800	$1.206 \times 10^{-3}$	0.552	0.427	$3.926 \times 10^{-1}$
0.8733	0.2800	$1.203 \times 10^{-3}$	0.554	0.421	$3.708 \times 10^{-1}$
0.8800	0.2800	$1.172 \times 10^{-3}$	0.548	0.410	$3.489 \times 10^{-1}$
0.8867	0.2800	$1.134 \times 10^{-3}$	0.537	0.391	$3.270 \times 10^{-1}$
0.8933	0.2800	$1.096 \times 10^{-3}$	0.516	0.367	$3.088 \times 10^{-1}$
0.9000	0.2800	$1.059 \times 10^{-3}$	0.490	0.342	$2.894 \times 10^{-1}$
0.9067	0.2800	$1.035 \times 10^{-3}$	0.460	0.314	$2.735 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9133	0.2800	$1.036 \times 10^{-3}$	0.427	0.286	$2.626 \times 10^{-1}$
0.9200	0.2800	$1.039 \times 10^{-3}$	0.398	0.260	$2.449 \times 10^{-1}$
0.9267	0.2800	$1.064 \times 10^{-3}$	0.369	0.237	$2.291 \times 10^{-1}$
0.9333	0.2800	$1.122 \times 10^{-3}$	0.343	0.216	$2.191 \times 10^{-1}$
0.9400	0.2800	$1.184 \times 10^{-3}$	0.322	0.197	$2.082 \times 10^{-1}$
0.9467	0.2800	$1.273 \times 10^{-3}$	0.303	0.182	$1.986 \times 10^{-1}$
0.9533	0.2800	$1.342 \times 10^{-3}$	0.291	0.171	$1.854 \times 10^{-1}$
0.9600	0.2800	$1.411 \times 10^{-3}$	0.281	0.161	$1.740 \times 10^{-1}$
0.9667	0.2800	$1.483 \times 10^{-3}$	0.274	0.151	$1.664 \times 10^{-1}$
0.9733	0.2800	$1.536 \times 10^{-3}$	0.267	0.144	$1.556 \times 10^{-1}$
0.9800	0.2800	$1.575 \times 10^{-3}$	0.264	0.137	$1.468 \times 10^{-1}$
0.9867	0.2800	$1.602 \times 10^{-3}$	0.259	0.132	$1.378 \times 10^{-1}$
0.9933	0.2800	$1.611 \times 10^{-3}$	0.256	0.127	$1.294 \times 10^{-1}$
1.0000	0.2800	$1.623 \times 10^{-3}$	0.255	0.123	$1.238 \times 10^{-1}$
0.6667	0.2867	$2.229 \times 10^{-4}$	1.000	$3.551 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.6733	0.2867	$2.234 \times 10^{-4}$	1.000	$2.557 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.6800	0.2867	$2.241 \times 10^{-4}$	1.000	$2.697 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.6867	0.2867	$2.241 \times 10^{-4}$	1.000	$3.803 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.6933	0.2867	$2.233 \times 10^{-4}$	1.000	$2.081 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.7000	0.2867	$2.238 \times 10^{-4}$	1.000	$-4.351 \times 10^{-5}$	$7.369 \times 10^{-3}$
0.7067	0.2867	$2.238 \times 10^{-4}$	1.000	$7.124 \times 10^{-5}$	$7.366 \times 10^{-3}$
0.7133	0.2867	$2.233 \times 10^{-4}$	1.000	$6.100 \times 10^{-4}$	$7.346 \times 10^{-3}$
0.7200	0.2867	$2.239 \times 10^{-4}$	1.000	$1.383 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.7267	0.2867	$2.242 \times 10^{-4}$	1.000	$8.011 \times 10^{-5}$	$7.375 \times 10^{-3}$
0.7333	0.2867	$2.239 \times 10^{-4}$	1.000	$2.571 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.7400	0.2867	$2.236 \times 10^{-4}$	1.000	$5.982 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.7467	0.2867	$2.235 \times 10^{-4}$	1.000	$3.141 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.7533	0.2867	$2.232 \times 10^{-4}$	1.000	$1.725 \times 10^{-5}$	$7.347 \times 10^{-3}$
0.7600	0.2867	$2.232 \times 10^{-4}$	1.000	$-3.351 \times 10^{-5}$	$7.349 \times 10^{-3}$
0.7667	0.2867	$2.244 \times 10^{-4}$	1.000	$5.116 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.7733	0.2867	$2.238 \times 10^{-4}$	1.000	$1.877 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.7800	0.2867	$2.235 \times 10^{-4}$	1.000	$1.444 \times 10^{-4}$	$7.333 \times 10^{-3}$
0.7867	0.2867	$2.235 \times 10^{-4}$	1.000	$2.324 \times 10^{-4}$	$7.313 \times 10^{-3}$
0.7933	0.2867	$2.242 \times 10^{-4}$	1.000	$3.174 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.8000	0.2867	$2.242 \times 10^{-4}$	1.000	$1.715 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.8067	0.2867	$2.252 \times 10^{-4}$	0.999	$1.717 \times 10^{-4}$	$7.414 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8133	0.2867	$2.264 \times 10^{-4}$	0.999	$5.994 \times 10^{-5}$	$7.465 \times 10^{-3}$
0.8200	0.2867	$2.257 \times 10^{-4}$	0.999	$1.132 \times 10^{-3}$	$7.636 \times 10^{-3}$
0.8267	0.2867	$2.276 \times 10^{-4}$	0.993	$6.313 \times 10^{-3}$	$9.692 \times 10^{-3}$
0.8333	0.2867	$2.568 \times 10^{-4}$	0.934	$5.904 \times 10^{-2}$	$2.911 \times 10^{-2}$
0.8400	0.2867	$4.238 \times 10^{-4}$	0.754	0.220	$1.162 \times 10^{-1}$
0.8467	0.2867	$8.148 \times 10^{-4}$	0.595	0.368	$2.901 \times 10^{-1}$
0.8533	0.2867	$1.092 \times 10^{-3}$	0.553	0.408	$3.983 \times 10^{-1}$
0.8600	0.2867	$1.156 \times 10^{-3}$	0.549	0.417	$4.123 \times 10^{-1}$
0.8667	0.2867	$1.161 \times 10^{-3}$	0.556	0.425	$3.971 \times 10^{-1}$
0.8733	0.2867	$1.165 \times 10^{-3}$	0.559	0.423	$3.782 \times 10^{-1}$
0.8800	0.2867	$1.153 \times 10^{-3}$	0.560	0.418	$3.586 \times 10^{-1}$
0.8867	0.2867	$1.132 \times 10^{-3}$	0.559	0.408	$3.363 \times 10^{-1}$
0.8933	0.2867	$1.103 \times 10^{-3}$	0.547	0.390	$3.186 \times 10^{-1}$
0.9000	0.2867	$1.062 \times 10^{-3}$	0.530	0.370	$2.985 \times 10^{-1}$
0.9067	0.2867	$1.031 \times 10^{-3}$	0.508	0.347	$2.821 \times 10^{-1}$
0.9133	0.2867	$9.928 \times 10^{-4}$	0.481	0.321	$2.636 \times 10^{-1}$
0.9200	0.2867	$9.784 \times 10^{-4}$	0.454	0.297	$2.490 \times 10^{-1}$
0.9267	0.2867	$9.780 \times 10^{-4}$	0.422	0.271	$2.355 \times 10^{-1}$
0.9333	0.2867	$9.928 \times 10^{-4}$	0.394	0.247	$2.229 \times 10^{-1}$
0.9400	0.2867	$1.032 \times 10^{-3}$	0.370	0.226	$2.120 \times 10^{-1}$
0.9467	0.2867	$1.084 \times 10^{-3}$	0.346	0.205	$2.015 \times 10^{-1}$
0.9533	0.2867	$1.147 \times 10^{-3}$	0.325	0.189	$1.923 \times 10^{-1}$
0.9600	0.2867	$1.210 \times 10^{-3}$	0.312	0.177	$1.815 \times 10^{-1}$
0.9667	0.2867	$1.276 \times 10^{-3}$	0.298	0.167	$1.718 \times 10^{-1}$
0.9733	0.2867	$1.345 \times 10^{-3}$	0.290	0.157	$1.635 \times 10^{-1}$
0.9800	0.2867	$1.393 \times 10^{-3}$	0.281	0.147	$1.524 \times 10^{-1}$
0.9867	0.2867	$1.427 \times 10^{-3}$	0.277	0.140	$1.441 \times 10^{-1}$
0.9933	0.2867	$1.472 \times 10^{-3}$	0.271	0.134	$1.366 \times 10^{-1}$
1.0000	0.2867	$1.505 \times 10^{-3}$	0.267	0.129	$1.297 \times 10^{-1}$
0.6667	0.2933	$2.222 \times 10^{-4}$	1.000	$2.390 \times 10^{-4}$	$7.331 \times 10^{-3}$
0.6733	0.2933	$2.228 \times 10^{-4}$	1.000	$1.526 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.6800	0.2933	$2.229 \times 10^{-4}$	1.000	$5.180 \times 10^{-5}$	$7.374 \times 10^{-3}$
0.6867	0.2933	$2.228 \times 10^{-4}$	1.000	$-1.147 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.6933	0.2933	$2.223 \times 10^{-4}$	1.000	$-2.071 \times 10^{-4}$	$7.336 \times 10^{-3}$
0.7000	0.2933	$2.221 \times 10^{-4}$	1.000	$-9.990 \times 10^{-5}$	$7.341 \times 10^{-3}$
0.7067	0.2933	$2.221 \times 10^{-4}$	1.000	$-3.802 \times 10^{-5}$	$7.333 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7133	0.2933	$2.222 \times 10^{-4}$	1.000	$-2.206 \times 10^{-4}$	$7.301 \times 10^{-3}$
0.7200	0.2933	$2.218 \times 10^{-4}$	1.001	$-1.346 \times 10^{-4}$	$7.322 \times 10^{-3}$
0.7267	0.2933	$2.212 \times 10^{-4}$	1.000	$-2.614 \times 10^{-4}$	$7.309 \times 10^{-3}$
0.7333	0.2933	$2.212 \times 10^{-4}$	1.000	$-2.894 \times 10^{-4}$	$7.305 \times 10^{-3}$
0.7400	0.2933	$2.216 \times 10^{-4}$	1.000	$-2.153 \times 10^{-4}$	$7.300 \times 10^{-3}$
0.7467	0.2933	$2.219 \times 10^{-4}$	1.000	$-5.118 \times 10^{-4}$	$7.313 \times 10^{-3}$
0.7533	0.2933	$2.221 \times 10^{-4}$	1.000	$-3.698 \times 10^{-4}$	$7.308 \times 10^{-3}$
0.7600	0.2933	$2.223 \times 10^{-4}$	1.000	$-2.985 \times 10^{-4}$	$7.315 \times 10^{-3}$
0.7667	0.2933	$2.229 \times 10^{-4}$	1.000	$-6.126 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.7733	0.2933	$2.224 \times 10^{-4}$	1.000	$-4.730 \times 10^{-4}$	$7.318 \times 10^{-3}$
0.7800	0.2933	$2.228 \times 10^{-4}$	1.000	$-2.621 \times 10^{-4}$	$7.333 \times 10^{-3}$
0.7867	0.2933	$2.228 \times 10^{-4}$	1.001	$-2.853 \times 10^{-5}$	$7.342 \times 10^{-3}$
0.7933	0.2933	$2.221 \times 10^{-4}$	1.000	$-2.717 \times 10^{-5}$	$7.255 \times 10^{-3}$
0.8000	0.2933	$2.232 \times 10^{-4}$	1.000	$-3.641 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.8067	0.2933	$2.238 \times 10^{-4}$	1.000	$-3.993 \times 10^{-4}$	$7.360 \times 10^{-3}$
0.8133	0.2933	$2.211 \times 10^{-4}$	1.001	$5.240 \times 10^{-5}$	$7.259 \times 10^{-3}$
0.8200	0.2933	$2.226 \times 10^{-4}$	1.000	$-1.502 \times 10^{-4}$	$7.319 \times 10^{-3}$
0.8267	0.2933	$2.244 \times 10^{-4}$	0.999	$5.850 \times 10^{-4}$	$7.625 \times 10^{-3}$
0.8333	0.2933	$2.267 \times 10^{-4}$	0.991	$8.017 \times 10^{-3}$	$1.038 \times 10^{-2}$
0.8400	0.2933	$2.623 \times 10^{-4}$	0.926	$6.637 \times 10^{-2}$	$3.217 \times 10^{-2}$
0.8467	0.2933	$4.520 \times 10^{-4}$	0.747	0.234	$1.267 \times 10^{-1}$
0.8533	0.2933	$8.424 \times 10^{-4}$	0.604	0.367	$2.945 \times 10^{-1}$
0.8600	0.2933	$1.098 \times 10^{-3}$	0.563	0.406	$3.974 \times 10^{-1}$
0.8667	0.2933	$1.135 \times 10^{-3}$	0.559	0.414	$4.033 \times 10^{-1}$
0.8733	0.2933	$1.129 \times 10^{-3}$	0.561	0.417	$3.873 \times 10^{-1}$
0.8800	0.2933	$1.128 \times 10^{-3}$	0.564	0.417	$3.686 \times 10^{-1}$
0.8867	0.2933	$1.121 \times 10^{-3}$	0.570	0.414	$3.504 \times 10^{-1}$
0.8933	0.2933	$1.097 \times 10^{-3}$	0.567	0.405	$3.285 \times 10^{-1}$
0.9000	0.2933	$1.067 \times 10^{-3}$	0.559	0.390	$3.090 \times 10^{-1}$
0.9067	0.2933	$1.031 \times 10^{-3}$	0.546	0.373	$2.897 \times 10^{-1}$
0.9133	0.2933	$9.995 \times 10^{-4}$	0.528	0.350	$2.732 \times 10^{-1}$
0.9200	0.2933	$9.748 \times 10^{-4}$	0.506	0.326	$2.584 \times 10^{-1}$
0.9267	0.2933	$9.546 \times 10^{-4}$	0.478	0.302	$2.465 \times 10^{-1}$
0.9333	0.2933	$9.461 \times 10^{-4}$	0.448	0.279	$2.330 \times 10^{-1}$
0.9400	0.2933	$9.401 \times 10^{-4}$	0.423	0.255	$2.182 \times 10^{-1}$
0.9467	0.2933	$9.592 \times 10^{-4}$	0.397	0.234	$2.055 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9533	0.2933	$9.915 \times 10^{-4}$	0.372	0.215	$1.967 \times 10^{-1}$
0.9600	0.2933	$1.041 \times 10^{-3}$	0.352	0.199	$1.879 \times 10^{-1}$
0.9667	0.2933	$1.093 \times 10^{-3}$	0.334	0.184	$1.790 \times 10^{-1}$
0.9733	0.2933	$1.151 \times 10^{-3}$	0.320	0.173	$1.688 \times 10^{-1}$
0.9800	0.2933	$1.211 \times 10^{-3}$	0.307	0.161	$1.599 \times 10^{-1}$
0.9867	0.2933	$1.250 \times 10^{-3}$	0.299	0.152	$1.495 \times 10^{-1}$
0.9933	0.2933	$1.290 \times 10^{-3}$	0.291	0.144	$1.410 \times 10^{-1}$
1.0000	0.2933	$1.344 \times 10^{-3}$	0.285	0.138	$1.352 \times 10^{-1}$
0.6667	0.3000	$2.247 \times 10^{-4}$	1.000	$-2.163 \times 10^{-4}$	$7.365 \times 10^{-3}$
0.6733	0.3000	$2.253 \times 10^{-4}$	1.000	$-5.029 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.6800	0.3000	$2.252 \times 10^{-4}$	1.000	$-5.778 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.6867	0.3000	$2.237 \times 10^{-4}$	1.000	$-4.562 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.6933	0.3000	$2.263 \times 10^{-4}$	1.000	$-2.709 \times 10^{-4}$	$7.442 \times 10^{-3}$
0.7000	0.3000	$2.237 \times 10^{-4}$	1.001	$-3.935 \times 10^{-4}$	$7.354 \times 10^{-3}$
0.7067	0.3000	$2.231 \times 10^{-4}$	1.000	$-3.729 \times 10^{-4}$	$7.327 \times 10^{-3}$
0.7133	0.3000	$2.267 \times 10^{-4}$	1.000	$1.074 \times 10^{-4}$	$7.447 \times 10^{-3}$
0.7200	0.3000	$2.250 \times 10^{-4}$	1.001	$-2.038 \times 10^{-5}$	$7.377 \times 10^{-3}$
0.7267	0.3000	$2.249 \times 10^{-4}$	1.001	$-2.758 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.7333	0.3000	$2.257 \times 10^{-4}$	1.000	$-3.603 \times 10^{-4}$	$7.434 \times 10^{-3}$
0.7400	0.3000	$2.269 \times 10^{-4}$	1.000	$-1.253 \times 10^{-4}$	$7.461 \times 10^{-3}$
0.7467	0.3000	$2.257 \times 10^{-4}$	1.001	$-2.334 \times 10^{-4}$	$7.411 \times 10^{-3}$
0.7533	0.3000	$2.245 \times 10^{-4}$	1.001	$-8.592 \times 10^{-5}$	$7.355 \times 10^{-3}$
0.7600	0.3000	$2.238 \times 10^{-4}$	1.001	$-6.969 \times 10^{-5}$	$7.327 \times 10^{-3}$
0.7667	0.3000	$2.239 \times 10^{-4}$	1.000	$-6.839 \times 10^{-4}$	$7.357 \times 10^{-3}$
0.7733	0.3000	$2.248 \times 10^{-4}$	1.000	$-5.586 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.7800	0.3000	$2.253 \times 10^{-4}$	1.000	$-6.089 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.7867	0.3000	$2.253 \times 10^{-4}$	1.000	$-7.903 \times 10^{-4}$	$7.367 \times 10^{-3}$
0.7933	0.3000	$2.236 \times 10^{-4}$	1.000	$-6.015 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.8000	0.3000	$2.247 \times 10^{-4}$	1.000	$-1.055 \times 10^{-3}$	$7.372 \times 10^{-3}$
0.8067	0.3000	$2.254 \times 10^{-4}$	1.000	$-1.162 \times 10^{-3}$	$7.399 \times 10^{-3}$
0.8133	0.3000	$2.241 \times 10^{-4}$	1.000	$-7.957 \times 10^{-4}$	$7.374 \times 10^{-3}$
0.8200	0.3000	$2.237 \times 10^{-4}$	1.000	$-7.818 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.8267	0.3000	$2.239 \times 10^{-4}$	1.000	$-1.334 \times 10^{-3}$	$7.391 \times 10^{-3}$
0.8333	0.3000	$2.253 \times 10^{-4}$	1.000	$2.882 \times 10^{-4}$	$7.733 \times 10^{-3}$
0.8400	0.3000	$2.299 \times 10^{-4}$	0.990	$9.501 \times 10^{-3}$	$1.092 \times 10^{-2}$
0.8467	0.3000	$2.688 \times 10^{-4}$	0.916	$7.572 \times 10^{-2}$	$3.599 \times 10^{-2}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_0$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8533	0.3000	$4.734 \times 10^{-4}$	0.735	0.244	$1.335 \times 10^{-1}$
0.8600	0.3000	$8.591 \times 10^{-4}$	0.602	0.369	$2.963 \times 10^{-1}$
0.8667	0.3000	$1.089 \times 10^{-3}$	0.569	0.403	$3.878 \times 10^{-1}$
0.8733	0.3000	$1.116 \times 10^{-3}$	0.566	0.411	$3.924 \times 10^{-1}$
0.8800	0.3000	$1.099 \times 10^{-3}$	0.570	0.412	$3.758 \times 10^{-1}$
0.8867	0.3000	$1.100 \times 10^{-3}$	0.575	0.411	$3.612 \times 10^{-1}$
0.8933	0.3000	$1.086 \times 10^{-3}$	0.577	0.409	$3.400 \times 10^{-1}$
0.9000	0.3000	$1.071 \times 10^{-3}$	0.578	0.402	$3.218 \times 10^{-1}$
0.9067	0.3000	$1.046 \times 10^{-3}$	0.571	0.388	$3.040 \times 10^{-1}$
0.9133	0.3000	$1.009 \times 10^{-3}$	0.562	0.373	$2.845 \times 10^{-1}$
0.9200	0.3000	$9.702 \times 10^{-4}$	0.547	0.353	$2.658 \times 10^{-1}$
0.9267	0.3000	$9.459 \times 10^{-4}$	0.528	0.332	$2.518 \times 10^{-1}$
0.9333	0.3000	$9.243 \times 10^{-4}$	0.502	0.311	$2.389 \times 10^{-1}$
0.9400	0.3000	$9.045 \times 10^{-4}$	0.478	0.289	$2.255 \times 10^{-1}$
0.9467	0.3000	$8.954 \times 10^{-4}$	0.451	0.265	$2.132 \times 10^{-1}$
0.9533	0.3000	$9.038 \times 10^{-4}$	0.424	0.246	$2.018 \times 10^{-1}$
0.9600	0.3000	$9.207 \times 10^{-4}$	0.400	0.227	$1.923 \times 10^{-1}$
0.9667	0.3000	$9.536 \times 10^{-4}$	0.379	0.210	$1.828 \times 10^{-1}$
0.9733	0.3000	$9.932 \times 10^{-4}$	0.359	0.193	$1.753 \times 10^{-1}$
0.9800	0.3000	$1.037 \times 10^{-3}$	0.343	0.180	$1.648 \times 10^{-1}$
0.9867	0.3000	$1.080 \times 10^{-3}$	0.329	0.168	$1.563 \times 10^{-1}$
0.9933	0.3000	$1.121 \times 10^{-3}$	0.318	0.158	$1.470 \times 10^{-1}$
1.0000	0.3000	$1.168 \times 10^{-3}$	0.309	0.149	$1.407 \times 10^{-1}$
0.6667	0.3067	$2.252 \times 10^{-4}$	1.000	$-6.621 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.6733	0.3067	$2.255 \times 10^{-4}$	1.001	$-2.418 \times 10^{-4}$	$7.430 \times 10^{-3}$
0.6800	0.3067	$2.255 \times 10^{-4}$	1.001	$6.721 \times 10^{-5}$	$7.437 \times 10^{-3}$
0.6867	0.3067	$2.261 \times 10^{-4}$	1.000	$1.369 \times 10^{-4}$	$7.440 \times 10^{-3}$
0.6933	0.3067	$2.262 \times 10^{-4}$	1.000	$2.571 \times 10^{-4}$	$7.441 \times 10^{-3}$
0.7000	0.3067	$2.252 \times 10^{-4}$	1.001	$1.999 \times 10^{-4}$	$7.402 \times 10^{-3}$
0.7067	0.3067	$2.250 \times 10^{-4}$	1.001	$-1.018 \times 10^{-5}$	$7.388 \times 10^{-3}$
0.7133	0.3067	$2.258 \times 10^{-4}$	1.000	$-3.399 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.7200	0.3067	$2.252 \times 10^{-4}$	1.000	$-1.059 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.7267	0.3067	$2.247 \times 10^{-4}$	1.000	$-4.627 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.7333	0.3067	$2.252 \times 10^{-4}$	1.000	$-5.550 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.7400	0.3067	$2.256 \times 10^{-4}$	1.000	$6.181 \times 10^{-5}$	$7.417 \times 10^{-3}$
0.7467	0.3067	$2.244 \times 10^{-4}$	1.000	$-1.298 \times 10^{-4}$	$7.368 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7533	0.3067	$2.247 \times 10^{-4}$	1.000	$2.078 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.7600	0.3067	$2.257 \times 10^{-4}$	1.000	$2.450 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.7667	0.3067	$2.252 \times 10^{-4}$	1.000	$-7.351 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.7733	0.3067	$2.252 \times 10^{-4}$	1.000	$-1.143 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.7800	0.3067	$2.257 \times 10^{-4}$	1.000	$-1.391 \times 10^{-5}$	$7.404 \times 10^{-3}$
0.7867	0.3067	$2.255 \times 10^{-4}$	1.000	$-2.023 \times 10^{-4}$	$7.401 \times 10^{-3}$
0.7933	0.3067	$2.237 \times 10^{-4}$	1.000	$-1.365 \times 10^{-4}$	$7.353 \times 10^{-3}$
0.8000	0.3067	$2.239 \times 10^{-4}$	1.000	$-2.167 \times 10^{-4}$	$7.347 \times 10^{-3}$
0.8067	0.3067	$2.241 \times 10^{-4}$	1.000	$-3.262 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.8133	0.3067	$2.238 \times 10^{-4}$	1.000	$-3.548 \times 10^{-4}$	$7.328 \times 10^{-3}$
0.8200	0.3067	$2.233 \times 10^{-4}$	1.001	$1.271 \times 10^{-4}$	$7.321 \times 10^{-3}$
0.8267	0.3067	$2.233 \times 10^{-4}$	1.001	$1.784 \times 10^{-3}$	$7.306 \times 10^{-3}$
0.8333	0.3067	$2.247 \times 10^{-4}$	1.000	$9.685 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.8400	0.3067	$2.241 \times 10^{-4}$	0.999	$1.654 \times 10^{-3}$	$7.536 \times 10^{-3}$
0.8467	0.3067	$2.291 \times 10^{-4}$	0.988	$1.163 \times 10^{-2}$	$1.134 \times 10^{-2}$
0.8533	0.3067	$2.692 \times 10^{-4}$	0.915	$8.008 \times 10^{-2}$	$3.679 \times 10^{-2}$
0.8600	0.3067	$4.799 \times 10^{-4}$	0.735	0.252	$1.357 \times 10^{-1}$
0.8667	0.3067	$8.750 \times 10^{-4}$	0.611	0.372	$2.973 \times 10^{-1}$
0.8733	0.3067	$1.073 \times 10^{-3}$	0.580	0.402	$3.764 \times 10^{-1}$
0.8800	0.3067	$1.094 \times 10^{-3}$	0.576	0.407	$3.805 \times 10^{-1}$
0.8867	0.3067	$1.069 \times 10^{-3}$	0.580	0.409	$3.619 \times 10^{-1}$
0.8933	0.3067	$1.057 \times 10^{-3}$	0.582	0.407	$3.471 \times 10^{-1}$
0.9000	0.3067	$1.043 \times 10^{-3}$	0.586	0.406	$3.272 \times 10^{-1}$
0.9067	0.3067	$1.031 \times 10^{-3}$	0.586	0.398	$3.119 \times 10^{-1}$
0.9133	0.3067	$1.015 \times 10^{-3}$	0.582	0.385	$2.981 \times 10^{-1}$
0.9200	0.3067	$9.748 \times 10^{-4}$	0.574	0.374	$2.757 \times 10^{-1}$
0.9267	0.3067	$9.505 \times 10^{-4}$	0.564	0.358	$2.608 \times 10^{-1}$
0.9333	0.3067	$9.234 \times 10^{-4}$	0.546	0.338	$2.475 \times 10^{-1}$
0.9400	0.3067	$8.948 \times 10^{-4}$	0.527	0.317	$2.317 \times 10^{-1}$
0.9467	0.3067	$8.783 \times 10^{-4}$	0.503	0.297	$2.208 \times 10^{-1}$
0.9533	0.3067	$8.555 \times 10^{-4}$	0.479	0.276	$2.069 \times 10^{-1}$
0.9600	0.3067	$8.608 \times 10^{-4}$	0.454	0.254	$1.978 \times 10^{-1}$
0.9667	0.3067	$8.652 \times 10^{-4}$	0.429	0.236	$1.901 \times 10^{-1}$
0.9733	0.3067	$8.841 \times 10^{-4}$	0.407	0.219	$1.802 \times 10^{-1}$
0.9800	0.3067	$9.036 \times 10^{-4}$	0.386	0.202	$1.700 \times 10^{-1}$
0.9867	0.3067	$9.299 \times 10^{-4}$	0.369	0.189	$1.600 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9933	0.3067	$9.692 \times 10^{-4}$	0.353	0.177	$1.518 \times 10^{-1}$
1.0000	0.3067	$1.011 \times 10^{-3}$	0.339	0.165	$1.450 \times 10^{-1}$
0.6667	0.3133	$2.247 \times 10^{-4}$	1.000	$-5.753 \times 10^{-5}$	$7.385 \times 10^{-3}$
0.6733	0.3133	$2.246 \times 10^{-4}$	1.001	$2.222 \times 10^{-4}$	$7.405 \times 10^{-3}$
0.6800	0.3133	$2.249 \times 10^{-4}$	1.001	$4.762 \times 10^{-4}$	$7.425 \times 10^{-3}$
0.6867	0.3133	$2.252 \times 10^{-4}$	1.000	$3.515 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.6933	0.3133	$2.245 \times 10^{-4}$	1.001	$5.667 \times 10^{-5}$	$7.391 \times 10^{-3}$
0.7000	0.3133	$2.248 \times 10^{-4}$	1.001	$3.830 \times 10^{-4}$	$7.389 \times 10^{-3}$
0.7067	0.3133	$2.250 \times 10^{-4}$	1.001	$3.745 \times 10^{-4}$	$7.391 \times 10^{-3}$
0.7133	0.3133	$2.242 \times 10^{-4}$	1.000	$-7.240 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.7200	0.3133	$2.240 \times 10^{-4}$	1.000	$6.084 \times 10^{-5}$	$7.376 \times 10^{-3}$
0.7267	0.3133	$2.238 \times 10^{-4}$	1.000	$2.613 \times 10^{-5}$	$7.369 \times 10^{-3}$
0.7333	0.3133	$2.238 \times 10^{-4}$	1.000	$8.854 \times 10^{-5}$	$7.368 \times 10^{-3}$
0.7400	0.3133	$2.237 \times 10^{-4}$	1.000	$4.015 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.7467	0.3133	$2.236 \times 10^{-4}$	1.000	$3.316 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.7533	0.3133	$2.243 \times 10^{-4}$	1.000	$5.901 \times 10^{-4}$	$7.395 \times 10^{-3}$
0.7600	0.3133	$2.252 \times 10^{-4}$	1.000	$4.889 \times 10^{-4}$	$7.438 \times 10^{-3}$
0.7667	0.3133	$2.253 \times 10^{-4}$	1.000	$-3.992 \times 10^{-4}$	$7.421 \times 10^{-3}$
0.7733	0.3133	$2.246 \times 10^{-4}$	1.000	$2.426 \times 10^{-4}$	$7.392 \times 10^{-3}$
0.7800	0.3133	$2.247 \times 10^{-4}$	1.000	$3.522 \times 10^{-4}$	$7.400 \times 10^{-3}$
0.7867	0.3133	$2.251 \times 10^{-4}$	1.000	$-7.477 \times 10^{-6}$	$7.410 \times 10^{-3}$
0.7933	0.3133	$2.246 \times 10^{-4}$	1.000	$-4.350 \times 10^{-5}$	$7.386 \times 10^{-3}$
0.8000	0.3133	$2.238 \times 10^{-4}$	1.001	$8.223 \times 10^{-5}$	$7.345 \times 10^{-3}$
0.8067	0.3133	$2.236 \times 10^{-4}$	1.001	$2.321 \times 10^{-5}$	$7.331 \times 10^{-3}$
0.8133	0.3133	$2.239 \times 10^{-4}$	1.000	$-8.362 \times 10^{-5}$	$7.342 \times 10^{-3}$
0.8200	0.3133	$2.238 \times 10^{-4}$	1.001	$1.488 \times 10^{-4}$	$7.350 \times 10^{-3}$
0.8267	0.3133	$2.236 \times 10^{-4}$	1.000	$5.623 \times 10^{-5}$	$7.329 \times 10^{-3}$
0.8333	0.3133	$2.239 \times 10^{-4}$	1.000	$1.788 \times 10^{-4}$	$7.343 \times 10^{-3}$
0.8400	0.3133	$2.251 \times 10^{-4}$	1.000	$7.996 \times 10^{-4}$	$7.424 \times 10^{-3}$
0.8467	0.3133	$2.249 \times 10^{-4}$	0.999	$6.201 \times 10^{-4}$	$7.713 \times 10^{-3}$
0.8533	0.3133	$2.317 \times 10^{-4}$	0.987	$1.237 \times 10^{-2}$	$1.165 \times 10^{-2}$
0.8600	0.3133	$2.754 \times 10^{-4}$	0.910	$8.877 \times 10^{-2}$	$3.890 \times 10^{-2}$
0.8667	0.3133	$4.861 \times 10^{-4}$	0.740	0.252	$1.343 \times 10^{-1}$
0.8733	0.3133	$8.589 \times 10^{-4}$	0.620	0.369	$2.872 \times 10^{-1}$
0.8800	0.3133	$1.059 \times 10^{-3}$	0.589	0.399	$3.647 \times 10^{-1}$
0.8867	0.3133	$1.075 \times 10^{-3}$	0.585	0.403	$3.696 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.8933	0.3133	$1.051 \times 10^{-3}$	0.588	0.404	$3.543 \times 10^{-1}$
0.9000	0.3133	$1.032 \times 10^{-3}$	0.589	0.404	$3.387 \times 10^{-1}$
0.9067	0.3133	$1.015 \times 10^{-3}$	0.594	0.401	$3.205 \times 10^{-1}$
0.9133	0.3133	$9.971 \times 10^{-4}$	0.594	0.396	$3.025 \times 10^{-1}$
0.9200	0.3133	$9.759 \times 10^{-4}$	0.593	0.385	$2.854 \times 10^{-1}$
0.9267	0.3133	$9.532 \times 10^{-4}$	0.588	0.374	$2.703 \times 10^{-1}$
0.9333	0.3133	$9.217 \times 10^{-4}$	0.578	0.359	$2.545 \times 10^{-1}$
0.9400	0.3133	$8.916 \times 10^{-4}$	0.566	0.343	$2.380 \times 10^{-1}$
0.9467	0.3133	$8.724 \times 10^{-4}$	0.546	0.324	$2.272 \times 10^{-1}$
0.9533	0.3133	$8.496 \times 10^{-4}$	0.527	0.305	$2.142 \times 10^{-1}$
0.9600	0.3133	$8.309 \times 10^{-4}$	0.505	0.284	$2.038 \times 10^{-1}$
0.9667	0.3133	$8.215 \times 10^{-4}$	0.482	0.265	$1.933 \times 10^{-1}$
0.9733	0.3133	$8.208 \times 10^{-4}$	0.458	0.247	$1.844 \times 10^{-1}$
0.9800	0.3133	$8.231 \times 10^{-4}$	0.436	0.229	$1.752 \times 10^{-1}$
0.9867	0.3133	$8.342 \times 10^{-4}$	0.415	0.213	$1.664 \times 10^{-1}$
0.9933	0.3133	$8.513 \times 10^{-4}$	0.396	0.198	$1.577 \times 10^{-1}$
1.0000	0.3133	$8.770 \times 10^{-4}$	0.378	0.187	$1.496 \times 10^{-1}$
0.6667	0.3200	$2.243 \times 10^{-4}$	1.000	$4.003 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.6733	0.3200	$2.243 \times 10^{-4}$	1.000	$3.975 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.6800	0.3200	$2.244 \times 10^{-4}$	1.000	$3.466 \times 10^{-4}$	$7.394 \times 10^{-3}$
0.6867	0.3200	$2.244 \times 10^{-4}$	1.000	$1.343 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.6933	0.3200	$2.235 \times 10^{-4}$	1.001	$-2.938 \times 10^{-4}$	$7.340 \times 10^{-3}$
0.7000	0.3200	$2.244 \times 10^{-4}$	1.001	$-3.236 \times 10^{-5}$	$7.378 \times 10^{-3}$
0.7067	0.3200	$2.247 \times 10^{-4}$	1.000	$2.615 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.7133	0.3200	$2.235 \times 10^{-4}$	1.000	$1.575 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.7200	0.3200	$2.239 \times 10^{-4}$	1.000	$1.661 \times 10^{-4}$	$7.388 \times 10^{-3}$
0.7267	0.3200	$2.244 \times 10^{-4}$	1.000	$1.649 \times 10^{-4}$	$7.398 \times 10^{-3}$
0.7333	0.3200	$2.240 \times 10^{-4}$	1.001	$1.474 \times 10^{-4}$	$7.380 \times 10^{-3}$
0.7400	0.3200	$2.233 \times 10^{-4}$	1.000	$1.710 \times 10^{-4}$	$7.361 \times 10^{-3}$
0.7467	0.3200	$2.242 \times 10^{-4}$	1.001	$9.966 \times 10^{-5}$	$7.377 \times 10^{-3}$
0.7533	0.3200	$2.244 \times 10^{-4}$	1.000	$3.085 \times 10^{-4}$	$7.399 \times 10^{-3}$
0.7600	0.3200	$2.245 \times 10^{-4}$	1.000	$3.512 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.7667	0.3200	$2.250 \times 10^{-4}$	1.000	$-1.342 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.7733	0.3200	$2.246 \times 10^{-4}$	1.001	$3.323 \times 10^{-4}$	$7.397 \times 10^{-3}$
0.7800	0.3200	$2.243 \times 10^{-4}$	1.000	$3.651 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.7867	0.3200	$2.246 \times 10^{-4}$	1.000	$8.252 \times 10^{-5}$	$7.399 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.7933	0.3200	$2.254 \times 10^{-4}$	1.001	$-1.583 \times 10^{-4}$	$7.416 \times 10^{-3}$
0.8000	0.3200	$2.244 \times 10^{-4}$	1.001	$-2.089 \times 10^{-5}$	$7.369 \times 10^{-3}$
0.8067	0.3200	$2.239 \times 10^{-4}$	1.001	$-7.604 \times 10^{-5}$	$7.352 \times 10^{-3}$
0.8133	0.3200	$2.245 \times 10^{-4}$	1.001	$-1.421 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.8200	0.3200	$2.248 \times 10^{-4}$	1.001	$1.444 \times 10^{-5}$	$7.393 \times 10^{-3}$
0.8267	0.3200	$2.247 \times 10^{-4}$	1.001	$6.165 \times 10^{-6}$	$7.391 \times 10^{-3}$
0.8333	0.3200	$2.251 \times 10^{-4}$	1.001	$-2.062 \times 10^{-5}$	$7.402 \times 10^{-3}$
0.8400	0.3200	$2.253 \times 10^{-4}$	1.001	$1.717 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.8467	0.3200	$2.246 \times 10^{-4}$	1.001	$7.027 \times 10^{-4}$	$7.410 \times 10^{-3}$
0.8533	0.3200	$2.252 \times 10^{-4}$	0.999	$1.778 \times 10^{-3}$	$7.835 \times 10^{-3}$
0.8600	0.3200	$2.316 \times 10^{-4}$	0.987	$1.304 \times 10^{-2}$	$1.178 \times 10^{-2}$
0.8667	0.3200	$2.749 \times 10^{-4}$	0.913	$8.533 \times 10^{-2}$	$3.758 \times 10^{-2}$
0.8733	0.3200	$4.816 \times 10^{-4}$	0.746	0.254	$1.316 \times 10^{-1}$
0.8800	0.3200	$8.453 \times 10^{-4}$	0.631	0.366	$2.774 \times 10^{-1}$
0.8867	0.3200	$1.053 \times 10^{-3}$	0.599	0.397	$3.588 \times 10^{-1}$
0.8933	0.3200	$1.058 \times 10^{-3}$	0.596	0.399	$3.605 \times 10^{-1}$
0.9000	0.3200	$1.033 \times 10^{-3}$	0.596	0.401	$3.457 \times 10^{-1}$
0.9067	0.3200	$1.006 \times 10^{-3}$	0.597	0.399	$3.293 \times 10^{-1}$
0.9133	0.3200	$9.886 \times 10^{-4}$	0.600	0.398	$3.139 \times 10^{-1}$
0.9200	0.3200	$9.678 \times 10^{-4}$	0.603	0.393	$2.957 \times 10^{-1}$
0.9267	0.3200	$9.421 \times 10^{-4}$	0.602	0.383	$2.777 \times 10^{-1}$
0.9333	0.3200	$9.265 \times 10^{-4}$	0.599	0.375	$2.642 \times 10^{-1}$
0.9400	0.3200	$9.012 \times 10^{-4}$	0.592	0.360	$2.504 \times 10^{-1}$
0.9467	0.3200	$8.754 \times 10^{-4}$	0.581	0.345	$2.353 \times 10^{-1}$
0.9533	0.3200	$8.531 \times 10^{-4}$	0.565	0.329	$2.236 \times 10^{-1}$
0.9600	0.3200	$8.250 \times 10^{-4}$	0.551	0.312	$2.107 \times 10^{-1}$
0.9667	0.3200	$8.001 \times 10^{-4}$	0.530	0.295	$1.972 \times 10^{-1}$
0.9733	0.3200	$7.900 \times 10^{-4}$	0.509	0.276	$1.887 \times 10^{-1}$
0.9800	0.3200	$7.834 \times 10^{-4}$	0.486	0.257	$1.794 \times 10^{-1}$
0.9867	0.3200	$7.780 \times 10^{-4}$	0.466	0.239	$1.708 \times 10^{-1}$
0.9933	0.3200	$7.794 \times 10^{-4}$	0.446	0.224	$1.628 \times 10^{-1}$
1.0000	0.3200	$7.953 \times 10^{-4}$	0.424	0.207	$1.558 \times 10^{-1}$
0.6667	0.3267	$2.242 \times 10^{-4}$	1.000	$1.809 \times 10^{-5}$	$7.396 \times 10^{-3}$
0.6733	0.3267	$2.242 \times 10^{-4}$	1.000	$9.152 \times 10^{-5}$	$7.387 \times 10^{-3}$
0.6800	0.3267	$2.246 \times 10^{-4}$	1.000	$-1.114 \times 10^{-5}$	$7.409 \times 10^{-3}$
0.6867	0.3267	$2.250 \times 10^{-4}$	1.000	$-1.770 \times 10^{-4}$	$7.418 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.6933	0.3267	$2.243 \times 10^{-4}$	1.000	$-1.614 \times 10^{-4}$	$7.351 \times 10^{-3}$
0.7000	0.3267	$2.248 \times 10^{-4}$	1.000	$-1.969 \times 10^{-4}$	$7.407 \times 10^{-3}$
0.7067	0.3267	$2.247 \times 10^{-4}$	1.000	$-2.119 \times 10^{-4}$	$7.417 \times 10^{-3}$
0.7133	0.3267	$2.238 \times 10^{-4}$	1.000	$3.169 \times 10^{-5}$	$7.356 \times 10^{-3}$
0.7200	0.3267	$2.250 \times 10^{-4}$	1.000	$-7.788 \times 10^{-5}$	$7.429 \times 10^{-3}$
0.7267	0.3267	$2.252 \times 10^{-4}$	1.000	$-2.242 \times 10^{-4}$	$7.422 \times 10^{-3}$
0.7333	0.3267	$2.247 \times 10^{-4}$	1.000	$-4.410 \times 10^{-4}$	$7.384 \times 10^{-3}$
0.7400	0.3267	$2.235 \times 10^{-4}$	1.000	$-4.430 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.7467	0.3267	$2.245 \times 10^{-4}$	1.000	$-6.009 \times 10^{-4}$	$7.381 \times 10^{-3}$
0.7533	0.3267	$2.247 \times 10^{-4}$	1.000	$-4.577 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.7600	0.3267	$2.245 \times 10^{-4}$	1.000	$-2.198 \times 10^{-4}$	$7.393 \times 10^{-3}$
0.7667	0.3267	$2.249 \times 10^{-4}$	1.000	$3.316 \times 10^{-5}$	$7.397 \times 10^{-3}$
0.7733	0.3267	$2.252 \times 10^{-4}$	1.001	$5.615 \times 10^{-5}$	$7.394 \times 10^{-3}$
0.7800	0.3267	$2.245 \times 10^{-4}$	1.001	$2.839 \times 10^{-4}$	$7.378 \times 10^{-3}$
0.7867	0.3267	$2.241 \times 10^{-4}$	1.000	$3.515 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.7933	0.3267	$2.255 \times 10^{-4}$	1.000	$-2.791 \times 10^{-4}$	$7.428 \times 10^{-3}$
0.8000	0.3267	$2.245 \times 10^{-4}$	1.000	$-2.136 \times 10^{-5}$	$7.377 \times 10^{-3}$
0.8067	0.3267	$2.239 \times 10^{-4}$	1.001	$3.549 \times 10^{-5}$	$7.356 \times 10^{-3}$
0.8133	0.3267	$2.241 \times 10^{-4}$	1.001	$-1.690 \times 10^{-4}$	$7.366 \times 10^{-3}$
0.8200	0.3267	$2.246 \times 10^{-4}$	1.000	$2.690 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.8267	0.3267	$2.248 \times 10^{-4}$	1.001	$3.285 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.8333	0.3267	$2.254 \times 10^{-4}$	1.001	$2.936 \times 10^{-4}$	$7.414 \times 10^{-3}$
0.8400	0.3267	$2.256 \times 10^{-4}$	1.001	$2.090 \times 10^{-4}$	$7.415 \times 10^{-3}$
0.8467	0.3267	$2.228 \times 10^{-4}$	1.001	$3.423 \times 10^{-4}$	$7.352 \times 10^{-3}$
0.8533	0.3267	$2.231 \times 10^{-4}$	1.001	$1.475 \times 10^{-4}$	$7.355 \times 10^{-3}$
0.8600	0.3267	$2.228 \times 10^{-4}$	0.999	$1.471 \times 10^{-3}$	$7.582 \times 10^{-3}$
0.8667	0.3267	$2.294 \times 10^{-4}$	0.990	$1.082 \times 10^{-2}$	$1.098 \times 10^{-2}$
0.8733	0.3267	$2.732 \times 10^{-4}$	0.920	$8.199 \times 10^{-2}$	$3.541 \times 10^{-2}$
0.8800	0.3267	$4.754 \times 10^{-4}$	0.758	0.247	$1.244 \times 10^{-1}$
0.8867	0.3267	$8.376 \times 10^{-4}$	0.636	0.364	$2.700 \times 10^{-1}$
0.8933	0.3267	$1.029 \times 10^{-3}$	0.610	0.393	$3.442 \times 10^{-1}$
0.9000	0.3267	$1.050 \times 10^{-3}$	0.605	0.398	$3.520 \times 10^{-1}$
0.9067	0.3267	$1.018 \times 10^{-3}$	0.605	0.397	$3.370 \times 10^{-1}$
0.9133	0.3267	$9.825 \times 10^{-4}$	0.607	0.395	$3.194 \times 10^{-1}$
0.9200	0.3267	$9.658 \times 10^{-4}$	0.608	0.394	$3.051 \times 10^{-1}$
0.9267	0.3267	$9.477 \times 10^{-4}$	0.612	0.389	$2.896 \times 10^{-1}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

$x/L$	$z/L$	$n/n_o$	$u/V_\infty$	$w/V_\infty$	$nkT/\rho_\infty V_\infty^2$
0.9333	0.3267	$9.239 \times 10^{-4}$	0.610	0.381	$2.744 \times 10^{-1}$
0.9400	0.3267	$9.107 \times 10^{-4}$	0.607	0.371	$2.615 \times 10^{-1}$
0.9467	0.3267	$8.825 \times 10^{-4}$	0.605	0.360	$2.461 \times 10^{-1}$
0.9533	0.3267	$8.545 \times 10^{-4}$	0.599	0.349	$2.312 \times 10^{-1}$
0.9600	0.3267	$8.323 \times 10^{-4}$	0.585	0.334	$2.197 \times 10^{-1}$
0.9667	0.3267	$8.115 \times 10^{-4}$	0.571	0.318	$2.090 \times 10^{-1}$
0.9733	0.3267	$7.888 \times 10^{-4}$	0.555	0.299	$1.968 \times 10^{-1}$
0.9800	0.3267	$7.702 \times 10^{-4}$	0.535	0.284	$1.866 \times 10^{-1}$
0.9867	0.3267	$7.571 \times 10^{-4}$	0.514	0.267	$1.783 \times 10^{-1}$
0.9933	0.3267	$7.473 \times 10^{-4}$	0.496	0.251	$1.706 \times 10^{-1}$
1.0000	0.3267	$7.416 \times 10^{-4}$	0.475	0.234	$1.609 \times 10^{-1}$
0.6667	0.3333	$2.223 \times 10^{-4}$	1.001	$-7.752 \times 10^{-5}$	$7.274 \times 10^{-3}$
0.6733	0.3333	$2.236 \times 10^{-4}$	1.000	$-2.611 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.6800	0.3333	$2.241 \times 10^{-4}$	1.000	$-3.527 \times 10^{-4}$	$7.385 \times 10^{-3}$
0.6867	0.3333	$2.238 \times 10^{-4}$	1.001	$-1.899 \times 10^{-4}$	$7.396 \times 10^{-3}$
0.6933	0.3333	$2.254 \times 10^{-4}$	1.000	$1.794 \times 10^{-4}$	$7.419 \times 10^{-3}$
0.7000	0.3333	$2.243 \times 10^{-4}$	1.000	$3.018 \times 10^{-4}$	$7.403 \times 10^{-3}$
0.7067	0.3333	$2.237 \times 10^{-4}$	1.000	$2.690 \times 10^{-4}$	$7.382 \times 10^{-3}$
0.7133	0.3333	$2.246 \times 10^{-4}$	1.001	$-4.303 \times 10^{-5}$	$7.353 \times 10^{-3}$
0.7200	0.3333	$2.242 \times 10^{-4}$	1.001	$1.135 \times 10^{-4}$	$7.408 \times 10^{-3}$
0.7267	0.3333	$2.240 \times 10^{-4}$	1.001	$3.175 \times 10^{-4}$	$7.371 \times 10^{-3}$
0.7333	0.3333	$2.232 \times 10^{-4}$	1.001	$3.391 \times 10^{-4}$	$7.314 \times 10^{-3}$
0.7400	0.3333	$2.222 \times 10^{-4}$	1.000	$-1.993 \times 10^{-4}$	$7.318 \times 10^{-3}$
0.7467	0.3333	$2.238 \times 10^{-4}$	1.000	$2.635 \times 10^{-4}$	$7.348 \times 10^{-3}$
0.7533	0.3333	$2.236 \times 10^{-4}$	1.000	$-1.231 \times 10^{-4}$	$7.364 \times 10^{-3}$
0.7600	0.3333	$2.231 \times 10^{-4}$	1.000	$-3.520 \times 10^{-4}$	$7.369 \times 10^{-3}$
0.7667	0.3333	$2.240 \times 10^{-4}$	1.000	$4.449 \times 10^{-4}$	$7.372 \times 10^{-3}$
0.7733	0.3333	$2.237 \times 10^{-4}$	1.001	$-4.057 \times 10^{-4}$	$7.375 \times 10^{-3}$
0.7800	0.3333	$2.238 \times 10^{-4}$	1.001	$-6.745 \times 10^{-5}$	$7.383 \times 10^{-3}$
0.7867	0.3333	$2.242 \times 10^{-4}$	1.000	$2.680 \times 10^{-4}$	$7.401 \times 10^{-3}$
0.7933	0.3333	$2.242 \times 10^{-4}$	1.000	$-1.158 \times 10^{-3}$	$7.382 \times 10^{-3}$
0.8000	0.3333	$2.235 \times 10^{-4}$	1.000	$2.215 \times 10^{-4}$	$7.363 \times 10^{-3}$
0.8067	0.3333	$2.226 \times 10^{-4}$	1.000	$2.482 \times 10^{-4}$	$7.342 \times 10^{-3}$
0.8133	0.3333	$2.221 \times 10^{-4}$	1.000	$-3.627 \times 10^{-4}$	$7.337 \times 10^{-3}$
0.8200	0.3333	$2.231 \times 10^{-4}$	0.999	$3.533 \times 10^{-4}$	$7.359 \times 10^{-3}$
0.8267	0.3333	$2.228 \times 10^{-4}$	1.000	$4.496 \times 10^{-6}$	$7.337 \times 10^{-3}$

Table A.2: Flow field variables on symmetry plane, fine grid  
(continued).

<b>x/L</b>	<b>z/L</b>	<b>n/n<sub>o</sub></b>	<b>u/V<sub>∞</sub></b>	<b>w/V<sub>∞</sub></b>	<b>nkT/ρ<sub>∞</sub>V<sub>∞</sub><sup>2</sup></b>
0.8333	0.3333	$2.234 \times 10^{-4}$	1.000	$1.717 \times 10^{-4}$	$7.349 \times 10^{-3}$
0.8400	0.3333	$2.242 \times 10^{-4}$	1.000	$9.401 \times 10^{-4}$	$7.376 \times 10^{-3}$
0.8467	0.3333	$2.230 \times 10^{-4}$	1.001	$5.567 \times 10^{-4}$	$7.324 \times 10^{-3}$
0.8533	0.3333	$2.234 \times 10^{-4}$	1.000	$6.133 \times 10^{-4}$	$7.330 \times 10^{-3}$
0.8600	0.3333	$2.235 \times 10^{-4}$	1.000	$7.339 \times 10^{-4}$	$7.406 \times 10^{-3}$
0.8667	0.3333	$2.233 \times 10^{-4}$	0.999	$1.919 \times 10^{-3}$	$7.869 \times 10^{-3}$
0.8733	0.3333	$2.269 \times 10^{-4}$	0.990	$1.091 \times 10^{-2}$	$1.070 \times 10^{-2}$
0.8800	0.3333	$2.672 \times 10^{-4}$	0.926	$7.759 \times 10^{-2}$	$3.289 \times 10^{-2}$
0.8867	0.3333	$4.582 \times 10^{-4}$	0.771	0.238	$1.159 \times 10^{-1}$
0.8933	0.3333	$8.021 \times 10^{-4}$	0.655	0.356	$2.511 \times 10^{-1}$
0.9000	0.3333	$1.018 \times 10^{-3}$	0.621	0.389	$3.329 \times 10^{-1}$
0.9067	0.3333	$1.040 \times 10^{-3}$	0.614	0.394	$3.430 \times 10^{-1}$
0.9133	0.3333	$1.006 \times 10^{-3}$	0.616	0.392	$3.288 \times 10^{-1}$
0.9200	0.3333	$9.736 \times 10^{-4}$	0.617	0.391	$3.151 \times 10^{-1}$
0.9267	0.3333	$9.502 \times 10^{-4}$	0.616	0.387	$3.012 \times 10^{-1}$
0.9333	0.3333	$9.234 \times 10^{-4}$	0.618	0.382	$2.848 \times 10^{-1}$
0.9400	0.3333	$9.046 \times 10^{-4}$	0.618	0.378	$2.702 \times 10^{-1}$
0.9467	0.3333	$8.770 \times 10^{-4}$	0.619	0.370	$2.529 \times 10^{-1}$
0.9533	0.3333	$8.598 \times 10^{-4}$	0.615	0.359	$2.406 \times 10^{-1}$
0.9600	0.3333	$8.338 \times 10^{-4}$	0.609	0.349	$2.269 \times 10^{-1}$
0.9667	0.3333	$8.086 \times 10^{-4}$	0.603	0.336	$2.147 \times 10^{-1}$
0.9733	0.3333	$7.947 \times 10^{-4}$	0.589	0.322	$2.054 \times 10^{-1}$
0.9800	0.3333	$7.659 \times 10^{-4}$	0.577	0.307	$1.919 \times 10^{-1}$
0.9867	0.3333	$7.521 \times 10^{-4}$	0.561	0.291	$1.830 \times 10^{-1}$
0.9933	0.3333	$7.328 \times 10^{-4}$	0.541	0.275	$1.745 \times 10^{-1}$
1.0000	0.3333	$7.197 \times 10^{-4}$	0.524	0.260	$1.668 \times 10^{-1}$

## A.2 Upper Plate Surface Properties

Surface pressure, shear stress, and heating on the upper portion of the flat plate are tabulated in this section. Similar to the flow field data presented in Section A.1, the surface data presented in this section were interpolated from the closely spaced simulation grid to a coarse and fine grid with less points than the simulation to avoid an immense tabulated database.

Figure A.2 shows the two grid regions on the starboard side of the diagrammed flat plate model. The coarse grid spans the entire upper surface to the symmetry line, and the fine is located in the vicinity of the  $P = 0.01$  jet plume as shown in the figure. Overall surface properties are captured by the coarse grid, and described by the fine grid are the detailed surface properties in the vicinity of the interacting jet.

The surface properties given in the following tables are:  $x/L$ ,  $y/L$ ,  $p/\rho_\infty V_\infty^2$ ,  $\tau_{zx}/\rho_\infty V_\infty^2$ ,  $\tau_{zy}/\rho_\infty V_\infty^2$ , and  $\dot{q}''/\rho_\infty V_\infty^3$ . These variables are normalized by constants, which are given as  $L = 0.150m$ ,  $V_\infty = 1617.1m/s$ , and  $\rho_\infty = 2.7994 \times 10^{-4}kg/m^3$ .

### A.2.1 Coarse Grid Resolution

Presented in Table A.3 are the coarse grid interpolated surface variables. The coarse grid covers the upper surface of the flat plate to the symmetry plane, which overlays the region of  $0 \leq x/L \leq 1.0$  and  $0 \leq y/L \leq 0.7$  and is shown in Figure A.2. Cell spacing for the coarse grid is 0.005 m, which provides a  $30 \times 21$  cell array with  $25 \times 10^{-6}m^2$  cell resolution.

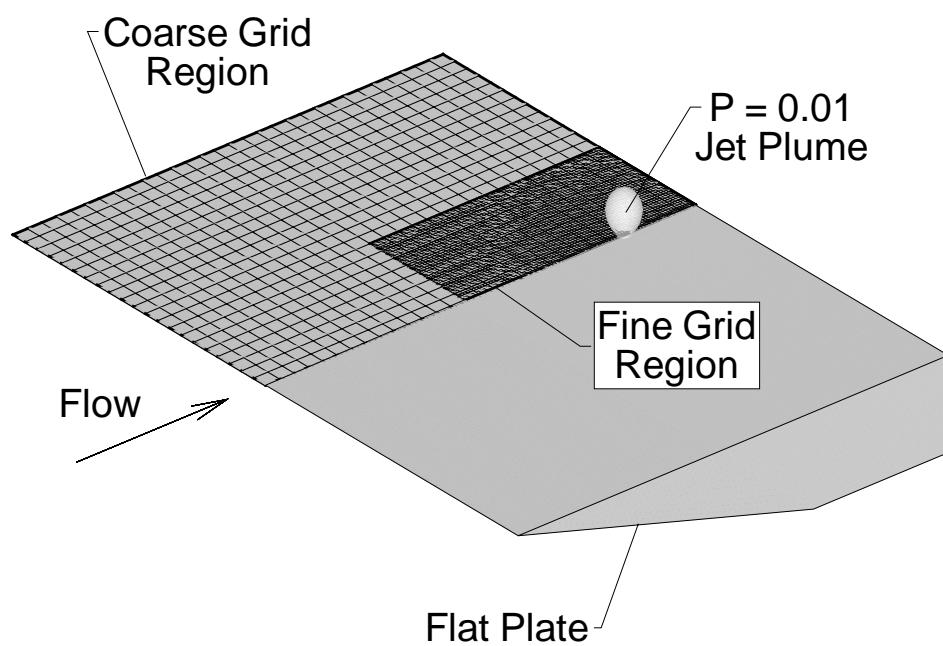


Fig. A.2. Diagram of flat plate model showing locations of the coarse and fine grid resolution regions.

Table A.3: Surface variables on upper plate, coarse grid.

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.0000	0.0000	$5.055 \times 10^{-2}$	$5.680 \times 10^{-2}$	$2.332 \times 10^{-4}$	$2.482 \times 10^{-2}$
0.0333	0.0000	$3.775 \times 10^{-2}$	$3.995 \times 10^{-2}$	$-1.139 \times 10^{-4}$	$1.652 \times 10^{-2}$
0.0667	0.0000	$4.062 \times 10^{-2}$	$3.489 \times 10^{-2}$	$-9.180 \times 10^{-5}$	$1.429 \times 10^{-2}$
0.1000	0.0000	$3.766 \times 10^{-2}$	$2.686 \times 10^{-2}$	$-6.433 \times 10^{-5}$	$1.102 \times 10^{-2}$
0.1333	0.0000	$3.635 \times 10^{-2}$	$2.185 \times 10^{-2}$	$4.070 \times 10^{-5}$	$9.025 \times 10^{-3}$
0.1667	0.0000	$3.281 \times 10^{-2}$	$2.250 \times 10^{-2}$	$1.579 \times 10^{-4}$	$8.893 \times 10^{-3}$
0.2000	0.0000	$3.848 \times 10^{-2}$	$2.542 \times 10^{-2}$	$7.798 \times 10^{-5}$	$1.036 \times 10^{-2}$
0.2333	0.0000	$3.775 \times 10^{-2}$	$2.165 \times 10^{-2}$	$7.216 \times 10^{-5}$	$8.835 \times 10^{-3}$
0.2667	0.0000	$3.368 \times 10^{-2}$	$1.785 \times 10^{-2}$	$-2.494 \times 10^{-4}$	$6.936 \times 10^{-3}$
0.3000	0.0000	$3.302 \times 10^{-2}$	$1.659 \times 10^{-2}$	$-8.837 \times 10^{-5}$	$6.568 \times 10^{-3}$
0.3333	0.0000	$3.457 \times 10^{-2}$	$1.583 \times 10^{-2}$	$1.710 \times 10^{-4}$	$6.251 \times 10^{-3}$
0.3667	0.0000	$3.286 \times 10^{-2}$	$1.436 \times 10^{-2}$	$4.698 \times 10^{-5}$	$5.683 \times 10^{-3}$
0.4000	0.0000	$3.146 \times 10^{-2}$	$1.266 \times 10^{-2}$	$1.925 \times 10^{-4}$	$5.050 \times 10^{-3}$
0.4333	0.0000	$3.149 \times 10^{-2}$	$1.152 \times 10^{-2}$	$-1.213 \times 10^{-4}$	$4.622 \times 10^{-3}$
0.4667	0.0000	$3.466 \times 10^{-2}$	$9.767 \times 10^{-3}$	$-1.098 \times 10^{-4}$	$4.513 \times 10^{-3}$
0.5000	0.0000	$4.394 \times 10^{-2}$	$5.473 \times 10^{-3}$	$-7.175 \times 10^{-5}$	$4.055 \times 10^{-3}$
0.5333	0.0000	$6.282 \times 10^{-2}$	$7.414 \times 10^{-4}$	$1.699 \times 10^{-5}$	$3.738 \times 10^{-3}$
0.5667	0.0000	$7.324 \times 10^{-2}$	$-1.620 \times 10^{-3}$	$1.626 \times 10^{-4}$	$3.120 \times 10^{-3}$
0.6000	0.0000	$8.452 \times 10^{-2}$	$-2.870 \times 10^{-3}$	$2.442 \times 10^{-4}$	$2.454 \times 10^{-3}$
0.6333	0.0000	$8.904 \times 10^{-2}$	$-6.240 \times 10^{-3}$	$3.236 \times 10^{-4}$	$3.340 \times 10^{-3}$
0.6667	0.0000	$1.007 \times 10^{-1}$	$-1.323 \times 10^{-2}$	$5.044 \times 10^{-4}$	$5.558 \times 10^{-3}$
0.7000	0.0000	$1.638 \times 10^{-1}$	$-1.220 \times 10^{-2}$	$3.948 \times 10^{-4}$	$1.051 \times 10^{-2}$
0.7333	0.0000	$1.603 \times 10^{-1}$	$1.631 \times 10^{-2}$	$-2.994 \times 10^{-4}$	$7.915 \times 10^{-3}$
0.7667	0.0000	$1.036 \times 10^{-1}$	$1.212 \times 10^{-2}$	$1.368 \times 10^{-4}$	$2.998 \times 10^{-3}$
0.8000	0.0000	$5.391 \times 10^{-2}$	$7.346 \times 10^{-3}$	$1.954 \times 10^{-4}$	$3.283 \times 10^{-4}$
0.8333	0.0000	$3.995 \times 10^{-3}$	$3.824 \times 10^{-4}$	$1.029 \times 10^{-3}$	$-3.428 \times 10^{-4}$
0.8667	0.0000	$1.226 \times 10^{-3}$	$5.255 \times 10^{-4}$	$-1.370 \times 10^{-5}$	$-1.147 \times 10^{-5}$
0.9000	0.0000	$4.312 \times 10^{-3}$	$5.480 \times 10^{-4}$	$1.672 \times 10^{-5}$	$-5.757 \times 10^{-5}$
0.9333	0.0000	$6.371 \times 10^{-3}$	$1.080 \times 10^{-3}$	$2.286 \times 10^{-4}$	$-1.246 \times 10^{-5}$
0.9667	0.0000	$7.395 \times 10^{-3}$	$1.312 \times 10^{-3}$	$-2.589 \times 10^{-4}$	$-1.194 \times 10^{-5}$
1.0000	0.0000	$7.841 \times 10^{-3}$	$1.739 \times 10^{-3}$	$1.710 \times 10^{-4}$	$1.763 \times 10^{-5}$
0.0000	0.0333	$4.429 \times 10^{-2}$	$5.029 \times 10^{-2}$	$-9.756 \times 10^{-5}$	$2.145 \times 10^{-2}$
0.0333	0.0333	$3.997 \times 10^{-2}$	$4.116 \times 10^{-2}$	$-5.482 \times 10^{-5}$	$1.718 \times 10^{-2}$
0.0667	0.0333	$4.101 \times 10^{-2}$	$3.563 \times 10^{-2}$	$-1.165 \times 10^{-4}$	$1.460 \times 10^{-2}$
0.1000	0.0333	$3.710 \times 10^{-2}$	$2.580 \times 10^{-2}$	$-5.389 \times 10^{-5}$	$1.049 \times 10^{-2}$
0.1333	0.0333	$3.639 \times 10^{-2}$	$2.179 \times 10^{-2}$	$-4.182 \times 10^{-5}$	$8.897 \times 10^{-3}$
0.1667	0.0333	$3.266 \times 10^{-2}$	$2.253 \times 10^{-2}$	$2.341 \times 10^{-5}$	$9.202 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.2000	0.0333	$3.851 \times 10^{-2}$	$2.534 \times 10^{-2}$	$1.730 \times 10^{-4}$	$1.032 \times 10^{-2}$
0.2333	0.0333	$3.728 \times 10^{-2}$	$2.080 \times 10^{-2}$	$4.072 \times 10^{-4}$	$8.365 \times 10^{-3}$
0.2667	0.0333	$3.216 \times 10^{-2}$	$1.727 \times 10^{-2}$	$1.291 \times 10^{-4}$	$6.595 \times 10^{-3}$
0.3000	0.0333	$3.359 \times 10^{-2}$	$1.635 \times 10^{-2}$	$-1.935 \times 10^{-4}$	$6.589 \times 10^{-3}$
0.3333	0.0333	$3.400 \times 10^{-2}$	$1.605 \times 10^{-2}$	$2.312 \times 10^{-4}$	$6.327 \times 10^{-3}$
0.3667	0.0333	$3.310 \times 10^{-2}$	$1.408 \times 10^{-2}$	$7.336 \times 10^{-5}$	$5.620 \times 10^{-3}$
0.4000	0.0333	$3.120 \times 10^{-2}$	$1.265 \times 10^{-2}$	$-3.524 \times 10^{-5}$	$4.907 \times 10^{-3}$
0.4333	0.0333	$3.179 \times 10^{-2}$	$1.135 \times 10^{-2}$	$-1.147 \times 10^{-5}$	$4.649 \times 10^{-3}$
0.4667	0.0333	$3.457 \times 10^{-2}$	$9.775 \times 10^{-3}$	$1.539 \times 10^{-4}$	$4.714 \times 10^{-3}$
0.5000	0.0333	$4.701 \times 10^{-2}$	$4.357 \times 10^{-3}$	$1.522 \times 10^{-4}$	$4.051 \times 10^{-3}$
0.5333	0.0333	$6.124 \times 10^{-2}$	$1.092 \times 10^{-3}$	$3.697 \times 10^{-4}$	$3.800 \times 10^{-3}$
0.5667	0.0333	$7.491 \times 10^{-2}$	$-1.887 \times 10^{-3}$	$6.029 \times 10^{-4}$	$2.932 \times 10^{-3}$
0.6000	0.0333	$8.324 \times 10^{-2}$	$-3.107 \times 10^{-3}$	$8.862 \times 10^{-4}$	$2.538 \times 10^{-3}$
0.6333	0.0333	$8.778 \times 10^{-2}$	$-5.421 \times 10^{-3}$	$1.227 \times 10^{-3}$	$3.053 \times 10^{-3}$
0.6667	0.0333	$1.002 \times 10^{-1}$	$-1.288 \times 10^{-2}$	$3.008 \times 10^{-3}$	$5.475 \times 10^{-3}$
0.7000	0.0333	$1.585 \times 10^{-1}$	$-1.397 \times 10^{-2}$	$5.444 \times 10^{-3}$	$1.041 \times 10^{-2}$
0.7333	0.0333	$1.688 \times 10^{-1}$	$1.461 \times 10^{-2}$	$1.305 \times 10^{-3}$	$8.927 \times 10^{-3}$
0.7667	0.0333	$1.016 \times 10^{-1}$	$1.450 \times 10^{-2}$	$2.412 \times 10^{-4}$	$3.073 \times 10^{-3}$
0.8000	0.0333	$7.083 \times 10^{-2}$	$1.070 \times 10^{-2}$	$8.417 \times 10^{-4}$	$9.974 \times 10^{-4}$
0.8333	0.0333	$1.294 \times 10^{-2}$	$3.049 \times 10^{-3}$	$-5.806 \times 10^{-4}$	$-7.990 \times 10^{-5}$
0.8667	0.0333	$6.954 \times 10^{-3}$	$1.794 \times 10^{-3}$	$-9.430 \times 10^{-4}$	$-1.136 \times 10^{-4}$
0.9000	0.0333	$7.649 \times 10^{-3}$	$2.044 \times 10^{-3}$	$-1.511 \times 10^{-3}$	$2.480 \times 10^{-5}$
0.9333	0.0333	$8.020 \times 10^{-3}$	$1.916 \times 10^{-3}$	$-1.352 \times 10^{-3}$	$2.962 \times 10^{-5}$
0.9667	0.0333	$7.740 \times 10^{-3}$	$1.932 \times 10^{-3}$	$-1.152 \times 10^{-3}$	$3.980 \times 10^{-5}$
1.0000	0.0333	$7.422 \times 10^{-3}$	$1.987 \times 10^{-3}$	$-8.357 \times 10^{-4}$	$6.182 \times 10^{-5}$
0.0000	0.0667	$4.539 \times 10^{-2}$	$5.091 \times 10^{-2}$	$-3.710 \times 10^{-4}$	$2.167 \times 10^{-2}$
0.0333	0.0667	$3.689 \times 10^{-2}$	$4.021 \times 10^{-2}$	$-1.310 \times 10^{-4}$	$1.675 \times 10^{-2}$
0.0667	0.0667	$4.074 \times 10^{-2}$	$3.425 \times 10^{-2}$	$-2.281 \times 10^{-6}$	$1.412 \times 10^{-2}$
0.1000	0.0667	$3.738 \times 10^{-2}$	$2.624 \times 10^{-2}$	$-4.345 \times 10^{-5}$	$1.072 \times 10^{-2}$
0.1333	0.0667	$3.596 \times 10^{-2}$	$2.197 \times 10^{-2}$	$-8.587 \times 10^{-5}$	$8.800 \times 10^{-3}$
0.1667	0.0667	$3.097 \times 10^{-2}$	$2.148 \times 10^{-2}$	$-3.115 \times 10^{-5}$	$8.569 \times 10^{-3}$
0.2000	0.0667	$3.886 \times 10^{-2}$	$2.498 \times 10^{-2}$	$5.047 \times 10^{-4}$	$1.027 \times 10^{-2}$
0.2333	0.0667	$3.745 \times 10^{-2}$	$2.122 \times 10^{-2}$	$5.171 \times 10^{-5}$	$8.624 \times 10^{-3}$
0.2667	0.0667	$3.318 \times 10^{-2}$	$1.747 \times 10^{-2}$	$-5.998 \times 10^{-5}$	$6.687 \times 10^{-3}$
0.3000	0.0667	$3.300 \times 10^{-2}$	$1.630 \times 10^{-2}$	$-3.056 \times 10^{-4}$	$6.474 \times 10^{-3}$
0.3333	0.0667	$3.369 \times 10^{-2}$	$1.523 \times 10^{-2}$	$1.249 \times 10^{-4}$	$6.225 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.3667	0.0667	$3.296 \times 10^{-2}$	$1.427 \times 10^{-2}$	$-2.001 \times 10^{-5}$	$5.599 \times 10^{-3}$
0.4000	0.0667	$3.189 \times 10^{-2}$	$1.296 \times 10^{-2}$	$5.690 \times 10^{-5}$	$5.017 \times 10^{-3}$
0.4333	0.0667	$3.130 \times 10^{-2}$	$1.160 \times 10^{-2}$	$-2.428 \times 10^{-5}$	$4.657 \times 10^{-3}$
0.4667	0.0667	$3.490 \times 10^{-2}$	$9.472 \times 10^{-3}$	$9.784 \times 10^{-5}$	$4.583 \times 10^{-3}$
0.5000	0.0667	$4.443 \times 10^{-2}$	$6.327 \times 10^{-3}$	$2.325 \times 10^{-4}$	$4.465 \times 10^{-3}$
0.5333	0.0667	$6.104 \times 10^{-2}$	$6.290 \times 10^{-4}$	$9.694 \times 10^{-4}$	$3.680 \times 10^{-3}$
0.5667	0.0667	$7.221 \times 10^{-2}$	$-1.541 \times 10^{-3}$	$1.331 \times 10^{-3}$	$2.988 \times 10^{-3}$
0.6000	0.0667	$8.112 \times 10^{-2}$	$-2.552 \times 10^{-3}$	$1.464 \times 10^{-3}$	$2.606 \times 10^{-3}$
0.6333	0.0667	$8.652 \times 10^{-2}$	$-4.516 \times 10^{-3}$	$2.183 \times 10^{-3}$	$2.852 \times 10^{-3}$
0.6667	0.0667	$9.483 \times 10^{-2}$	$-1.036 \times 10^{-2}$	$4.872 \times 10^{-3}$	$4.877 \times 10^{-3}$
0.7000	0.0667	$1.395 \times 10^{-1}$	$-1.512 \times 10^{-2}$	$1.038 \times 10^{-2}$	$9.316 \times 10^{-3}$
0.7333	0.0667	$1.794 \times 10^{-1}$	$7.778 \times 10^{-3}$	$7.920 \times 10^{-3}$	$1.068 \times 10^{-2}$
0.7667	0.0667	$1.084 \times 10^{-1}$	$1.906 \times 10^{-2}$	$-5.401 \times 10^{-4}$	$4.268 \times 10^{-3}$
0.8000	0.0667	$7.192 \times 10^{-2}$	$1.315 \times 10^{-2}$	$1.209 \times 10^{-3}$	$1.841 \times 10^{-3}$
0.8333	0.0667	$4.440 \times 10^{-2}$	$1.127 \times 10^{-2}$	$-7.146 \times 10^{-4}$	$8.518 \times 10^{-4}$
0.8667	0.0667	$2.409 \times 10^{-2}$	$6.896 \times 10^{-3}$	$-2.510 \times 10^{-3}$	$2.639 \times 10^{-4}$
0.9000	0.0667	$1.634 \times 10^{-2}$	$5.756 \times 10^{-3}$	$-2.690 \times 10^{-3}$	$3.047 \times 10^{-4}$
0.9333	0.0667	$1.193 \times 10^{-2}$	$4.191 \times 10^{-3}$	$-2.373 \times 10^{-3}$	$2.345 \times 10^{-4}$
0.9667	0.0667	$9.633 \times 10^{-3}$	$3.081 \times 10^{-3}$	$-1.984 \times 10^{-3}$	$1.865 \times 10^{-4}$
1.0000	0.0667	$8.027 \times 10^{-3}$	$2.873 \times 10^{-3}$	$-1.656 \times 10^{-3}$	$1.762 \times 10^{-4}$
0.0000	0.1000	$4.308 \times 10^{-2}$	$4.909 \times 10^{-2}$	$-1.249 \times 10^{-4}$	$2.081 \times 10^{-2}$
0.0333	0.1000	$3.954 \times 10^{-2}$	$4.081 \times 10^{-2}$	$2.141 \times 10^{-4}$	$1.695 \times 10^{-2}$
0.0667	0.1000	$4.129 \times 10^{-2}$	$3.583 \times 10^{-2}$	$1.991 \times 10^{-5}$	$1.488 \times 10^{-2}$
0.1000	0.1000	$3.698 \times 10^{-2}$	$2.550 \times 10^{-2}$	$-1.762 \times 10^{-4}$	$1.035 \times 10^{-2}$
0.1333	0.1000	$3.650 \times 10^{-2}$	$2.192 \times 10^{-2}$	$7.659 \times 10^{-5}$	$8.965 \times 10^{-3}$
0.1667	0.1000	$3.168 \times 10^{-2}$	$2.236 \times 10^{-2}$	$-2.975 \times 10^{-5}$	$8.912 \times 10^{-3}$
0.2000	0.1000	$3.863 \times 10^{-2}$	$2.520 \times 10^{-2}$	$1.101 \times 10^{-4}$	$1.041 \times 10^{-2}$
0.2333	0.1000	$3.723 \times 10^{-2}$	$2.092 \times 10^{-2}$	$-3.183 \times 10^{-4}$	$8.433 \times 10^{-3}$
0.2667	0.1000	$3.380 \times 10^{-2}$	$1.816 \times 10^{-2}$	$3.037 \times 10^{-5}$	$6.981 \times 10^{-3}$
0.3000	0.1000	$3.328 \times 10^{-2}$	$1.644 \times 10^{-2}$	$-5.507 \times 10^{-6}$	$6.606 \times 10^{-3}$
0.3333	0.1000	$3.381 \times 10^{-2}$	$1.585 \times 10^{-2}$	$2.091 \times 10^{-4}$	$6.449 \times 10^{-3}$
0.3667	0.1000	$3.319 \times 10^{-2}$	$1.446 \times 10^{-2}$	$9.944 \times 10^{-5}$	$5.747 \times 10^{-3}$
0.4000	0.1000	$3.156 \times 10^{-2}$	$1.297 \times 10^{-2}$	$4.053 \times 10^{-5}$	$5.041 \times 10^{-3}$
0.4333	0.1000	$3.116 \times 10^{-2}$	$1.134 \times 10^{-2}$	$9.449 \times 10^{-5}$	$4.631 \times 10^{-3}$
0.4667	0.1000	$3.340 \times 10^{-2}$	$1.021 \times 10^{-2}$	$7.533 \times 10^{-5}$	$4.532 \times 10^{-3}$
0.5000	0.1000	$4.503 \times 10^{-2}$	$6.245 \times 10^{-3}$	$7.286 \times 10^{-4}$	$4.451 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5333	0.1000	$5.672 \times 10^{-2}$	$1.653 \times 10^{-3}$	$1.109 \times 10^{-3}$	$3.776 \times 10^{-3}$
0.5667	0.1000	$7.111 \times 10^{-2}$	$-1.485 \times 10^{-3}$	$1.824 \times 10^{-3}$	$2.970 \times 10^{-3}$
0.6000	0.1000	$7.992 \times 10^{-2}$	$-2.378 \times 10^{-3}$	$2.252 \times 10^{-3}$	$2.527 \times 10^{-3}$
0.6333	0.1000	$8.450 \times 10^{-2}$	$-3.499 \times 10^{-3}$	$2.911 \times 10^{-3}$	$2.728 \times 10^{-3}$
0.6667	0.1000	$8.878 \times 10^{-2}$	$-7.312 \times 10^{-3}$	$5.605 \times 10^{-3}$	$4.001 \times 10^{-3}$
0.7000	0.1000	$1.138 \times 10^{-1}$	$-1.243 \times 10^{-2}$	$1.160 \times 10^{-2}$	$7.150 \times 10^{-3}$
0.7333	0.1000	$1.675 \times 10^{-1}$	$-3.359 \times 10^{-4}$	$1.457 \times 10^{-2}$	$1.087 \times 10^{-2}$
0.7667	0.1000	$1.401 \times 10^{-1}$	$2.010 \times 10^{-2}$	$2.644 \times 10^{-3}$	$6.922 \times 10^{-3}$
0.8000	0.1000	$7.936 \times 10^{-2}$	$1.604 \times 10^{-2}$	$-2.542 \times 10^{-3}$	$2.694 \times 10^{-3}$
0.8333	0.1000	$5.119 \times 10^{-2}$	$1.311 \times 10^{-2}$	$-2.152 \times 10^{-3}$	$1.607 \times 10^{-3}$
0.8667	0.1000	$3.466 \times 10^{-2}$	$9.384 \times 10^{-3}$	$-2.644 \times 10^{-3}$	$9.096 \times 10^{-4}$
0.9000	0.1000	$2.338 \times 10^{-2}$	$8.142 \times 10^{-3}$	$-3.051 \times 10^{-3}$	$7.738 \times 10^{-4}$
0.9333	0.1000	$1.691 \times 10^{-2}$	$6.079 \times 10^{-3}$	$-2.975 \times 10^{-3}$	$5.205 \times 10^{-4}$
0.9667	0.1000	$1.294 \times 10^{-2}$	$4.593 \times 10^{-3}$	$-2.567 \times 10^{-3}$	$2.696 \times 10^{-4}$
1.0000	0.1000	$9.703 \times 10^{-3}$	$4.020 \times 10^{-3}$	$-1.998 \times 10^{-3}$	$2.239 \times 10^{-4}$
0.0000	0.1333	$4.420 \times 10^{-2}$	$5.032 \times 10^{-2}$	$1.124 \times 10^{-4}$	$2.130 \times 10^{-2}$
0.0333	0.1333	$3.727 \times 10^{-2}$	$4.080 \times 10^{-2}$	$-5.370 \times 10^{-5}$	$1.697 \times 10^{-2}$
0.0667	0.1333	$4.149 \times 10^{-2}$	$3.496 \times 10^{-2}$	$9.584 \times 10^{-5}$	$1.441 \times 10^{-2}$
0.1000	0.1333	$3.753 \times 10^{-2}$	$2.647 \times 10^{-2}$	$4.734 \times 10^{-5}$	$1.072 \times 10^{-2}$
0.1333	0.1333	$3.614 \times 10^{-2}$	$2.181 \times 10^{-2}$	$-4.653 \times 10^{-6}$	$8.890 \times 10^{-3}$
0.1667	0.1333	$3.093 \times 10^{-2}$	$2.182 \times 10^{-2}$	$5.693 \times 10^{-5}$	$8.680 \times 10^{-3}$
0.2000	0.1333	$3.819 \times 10^{-2}$	$2.435 \times 10^{-2}$	$2.170 \times 10^{-4}$	$1.013 \times 10^{-2}$
0.2333	0.1333	$3.815 \times 10^{-2}$	$2.194 \times 10^{-2}$	$7.493 \times 10^{-5}$	$8.767 \times 10^{-3}$
0.2667	0.1333	$3.326 \times 10^{-2}$	$1.761 \times 10^{-2}$	$-6.291 \times 10^{-5}$	$6.783 \times 10^{-3}$
0.3000	0.1333	$3.355 \times 10^{-2}$	$1.653 \times 10^{-2}$	$1.892 \times 10^{-4}$	$6.627 \times 10^{-3}$
0.3333	0.1333	$3.378 \times 10^{-2}$	$1.555 \times 10^{-2}$	$2.067 \times 10^{-5}$	$6.187 \times 10^{-3}$
0.3667	0.1333	$3.243 \times 10^{-2}$	$1.414 \times 10^{-2}$	$-1.107 \times 10^{-4}$	$5.589 \times 10^{-3}$
0.4000	0.1333	$3.137 \times 10^{-2}$	$1.271 \times 10^{-2}$	$7.391 \times 10^{-5}$	$5.005 \times 10^{-3}$
0.4333	0.1333	$3.133 \times 10^{-2}$	$1.175 \times 10^{-2}$	$2.251 \times 10^{-4}$	$4.658 \times 10^{-3}$
0.4667	0.1333	$3.371 \times 10^{-2}$	$1.008 \times 10^{-2}$	$2.685 \times 10^{-4}$	$4.599 \times 10^{-3}$
0.5000	0.1333	$4.149 \times 10^{-2}$	$7.564 \times 10^{-3}$	$8.333 \times 10^{-4}$	$4.634 \times 10^{-3}$
0.5333	0.1333	$5.489 \times 10^{-2}$	$2.107 \times 10^{-3}$	$1.748 \times 10^{-3}$	$3.750 \times 10^{-3}$
0.5667	0.1333	$6.593 \times 10^{-2}$	$-4.585 \times 10^{-4}$	$2.165 \times 10^{-3}$	$3.069 \times 10^{-3}$
0.6000	0.1333	$7.715 \times 10^{-2}$	$-1.826 \times 10^{-3}$	$2.679 \times 10^{-3}$	$2.656 \times 10^{-3}$
0.6333	0.1333	$8.206 \times 10^{-2}$	$-2.570 \times 10^{-3}$	$3.362 \times 10^{-3}$	$2.592 \times 10^{-3}$
0.6667	0.1333	$8.473 \times 10^{-2}$	$-4.562 \times 10^{-3}$	$5.523 \times 10^{-3}$	$3.406 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7000	0.1333	$9.581 \times 10^{-2}$	$-8.862 \times 10^{-3}$	$1.048 \times 10^{-2}$	$5.391 \times 10^{-3}$
0.7333	0.1333	$1.342 \times 10^{-1}$	$-6.128 \times 10^{-3}$	$1.697 \times 10^{-2}$	$8.662 \times 10^{-3}$
0.7667	0.1333	$1.585 \times 10^{-1}$	$1.169 \times 10^{-2}$	$1.155 \times 10^{-2}$	$9.069 \times 10^{-3}$
0.8000	0.1333	$1.159 \times 10^{-1}$	$1.997 \times 10^{-2}$	$-1.100 \times 10^{-3}$	$5.096 \times 10^{-3}$
0.8333	0.1333	$7.154 \times 10^{-2}$	$1.576 \times 10^{-2}$	$-4.361 \times 10^{-3}$	$2.545 \times 10^{-3}$
0.8667	0.1333	$4.616 \times 10^{-2}$	$1.196 \times 10^{-2}$	$-4.535 \times 10^{-3}$	$1.539 \times 10^{-3}$
0.9000	0.1333	$3.175 \times 10^{-2}$	$9.068 \times 10^{-3}$	$-4.168 \times 10^{-3}$	$9.441 \times 10^{-4}$
0.9333	0.1333	$2.285 \times 10^{-2}$	$7.056 \times 10^{-3}$	$-3.794 \times 10^{-3}$	$6.453 \times 10^{-4}$
0.9667	0.1333	$1.797 \times 10^{-2}$	$6.283 \times 10^{-3}$	$-3.909 \times 10^{-3}$	$5.124 \times 10^{-4}$
1.0000	0.1333	$1.295 \times 10^{-2}$	$5.471 \times 10^{-3}$	$-3.072 \times 10^{-3}$	$3.851 \times 10^{-4}$
0.0000	0.1667	$4.422 \times 10^{-2}$	$5.070 \times 10^{-2}$	$5.630 \times 10^{-5}$	$2.159 \times 10^{-2}$
0.0333	0.1667	$3.960 \times 10^{-2}$	$4.097 \times 10^{-2}$	$-2.356 \times 10^{-4}$	$1.704 \times 10^{-2}$
0.0667	0.1667	$4.121 \times 10^{-2}$	$3.558 \times 10^{-2}$	$1.152 \times 10^{-4}$	$1.470 \times 10^{-2}$
0.1000	0.1667	$3.719 \times 10^{-2}$	$2.595 \times 10^{-2}$	$5.154 \times 10^{-5}$	$1.057 \times 10^{-2}$
0.1333	0.1667	$3.620 \times 10^{-2}$	$2.192 \times 10^{-2}$	$-2.307 \times 10^{-5}$	$8.950 \times 10^{-3}$
0.1667	0.1667	$3.169 \times 10^{-2}$	$2.238 \times 10^{-2}$	$3.417 \times 10^{-5}$	$8.851 \times 10^{-3}$
0.2000	0.1667	$3.847 \times 10^{-2}$	$2.529 \times 10^{-2}$	$-6.791 \times 10^{-7}$	$1.040 \times 10^{-2}$
0.2333	0.1667	$3.765 \times 10^{-2}$	$2.112 \times 10^{-2}$	$-1.276 \times 10^{-4}$	$8.550 \times 10^{-3}$
0.2667	0.1667	$3.315 \times 10^{-2}$	$1.760 \times 10^{-2}$	$1.350 \times 10^{-4}$	$6.789 \times 10^{-3}$
0.3000	0.1667	$3.352 \times 10^{-2}$	$1.628 \times 10^{-2}$	$3.060 \times 10^{-5}$	$6.582 \times 10^{-3}$
0.3333	0.1667	$3.334 \times 10^{-2}$	$1.566 \times 10^{-2}$	$2.399 \times 10^{-4}$	$6.257 \times 10^{-3}$
0.3667	0.1667	$3.249 \times 10^{-2}$	$1.400 \times 10^{-2}$	$-9.370 \times 10^{-5}$	$5.579 \times 10^{-3}$
0.4000	0.1667	$3.163 \times 10^{-2}$	$1.306 \times 10^{-2}$	$2.076 \times 10^{-4}$	$5.106 \times 10^{-3}$
0.4333	0.1667	$3.068 \times 10^{-2}$	$1.128 \times 10^{-2}$	$1.108 \times 10^{-4}$	$4.468 \times 10^{-3}$
0.4667	0.1667	$3.234 \times 10^{-2}$	$1.046 \times 10^{-2}$	$3.605 \times 10^{-4}$	$4.515 \times 10^{-3}$
0.5000	0.1667	$3.948 \times 10^{-2}$	$8.101 \times 10^{-3}$	$1.112 \times 10^{-3}$	$4.622 \times 10^{-3}$
0.5333	0.1667	$4.962 \times 10^{-2}$	$3.729 \times 10^{-3}$	$1.621 \times 10^{-3}$	$3.921 \times 10^{-3}$
0.5667	0.1667	$6.320 \times 10^{-2}$	$3.011 \times 10^{-4}$	$2.535 \times 10^{-3}$	$3.182 \times 10^{-3}$
0.6000	0.1667	$7.221 \times 10^{-2}$	$-1.044 \times 10^{-3}$	$3.137 \times 10^{-3}$	$2.767 \times 10^{-3}$
0.6333	0.1667	$7.895 \times 10^{-2}$	$-1.730 \times 10^{-3}$	$3.579 \times 10^{-3}$	$2.481 \times 10^{-3}$
0.6667	0.1667	$8.134 \times 10^{-2}$	$-2.566 \times 10^{-3}$	$5.103 \times 10^{-3}$	$2.917 \times 10^{-3}$
0.7000	0.1667	$8.362 \times 10^{-2}$	$-4.658 \times 10^{-3}$	$8.461 \times 10^{-3}$	$4.019 \times 10^{-3}$
0.7333	0.1667	$1.007 \times 10^{-1}$	$-6.220 \times 10^{-3}$	$1.420 \times 10^{-2}$	$5.989 \times 10^{-3}$
0.7667	0.1667	$1.371 \times 10^{-1}$	$4.402 \times 10^{-4}$	$1.860 \times 10^{-2}$	$8.519 \times 10^{-3}$
0.8000	0.1667	$1.450 \times 10^{-1}$	$1.431 \times 10^{-2}$	$1.072 \times 10^{-2}$	$7.600 \times 10^{-3}$
0.8333	0.1667	$1.130 \times 10^{-1}$	$2.002 \times 10^{-2}$	$-8.589 \times 10^{-4}$	$4.593 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8667	0.1667	$7.318 \times 10^{-2}$	$1.612 \times 10^{-2}$	$-5.171 \times 10^{-3}$	$2.381 \times 10^{-3}$
0.9000	0.1667	$4.920 \times 10^{-2}$	$1.166 \times 10^{-2}$	$-5.848 \times 10^{-3}$	$1.348 \times 10^{-3}$
0.9333	0.1667	$3.640 \times 10^{-2}$	$9.765 \times 10^{-3}$	$-5.581 \times 10^{-3}$	$9.577 \times 10^{-4}$
0.9667	0.1667	$2.598 \times 10^{-2}$	$7.526 \times 10^{-3}$	$-4.900 \times 10^{-3}$	$6.177 \times 10^{-4}$
1.0000	0.1667	$1.838 \times 10^{-2}$	$7.427 \times 10^{-3}$	$-3.990 \times 10^{-3}$	$4.945 \times 10^{-4}$
0.0000	0.2000	$5.088 \times 10^{-2}$	$5.793 \times 10^{-2}$	$-2.856 \times 10^{-4}$	$2.515 \times 10^{-2}$
0.0333	0.2000	$3.759 \times 10^{-2}$	$4.043 \times 10^{-2}$	$-1.201 \times 10^{-4}$	$1.680 \times 10^{-2}$
0.0667	0.2000	$4.168 \times 10^{-2}$	$3.497 \times 10^{-2}$	$-9.553 \times 10^{-5}$	$1.440 \times 10^{-2}$
0.1000	0.2000	$3.717 \times 10^{-2}$	$2.613 \times 10^{-2}$	$1.143 \times 10^{-4}$	$1.049 \times 10^{-2}$
0.1333	0.2000	$3.598 \times 10^{-2}$	$2.175 \times 10^{-2}$	$6.810 \times 10^{-5}$	$8.785 \times 10^{-3}$
0.1667	0.2000	$3.185 \times 10^{-2}$	$2.206 \times 10^{-2}$	$1.722 \times 10^{-4}$	$8.740 \times 10^{-3}$
0.2000	0.2000	$3.826 \times 10^{-2}$	$2.485 \times 10^{-2}$	$-8.397 \times 10^{-5}$	$1.020 \times 10^{-2}$
0.2333	0.2000	$3.828 \times 10^{-2}$	$2.169 \times 10^{-2}$	$1.531 \times 10^{-5}$	$8.758 \times 10^{-3}$
0.2667	0.2000	$3.353 \times 10^{-2}$	$1.762 \times 10^{-2}$	$-9.426 \times 10^{-5}$	$6.806 \times 10^{-3}$
0.3000	0.2000	$3.314 \times 10^{-2}$	$1.654 \times 10^{-2}$	$9.868 \times 10^{-5}$	$6.470 \times 10^{-3}$
0.3333	0.2000	$3.338 \times 10^{-2}$	$1.562 \times 10^{-2}$	$1.428 \times 10^{-4}$	$6.327 \times 10^{-3}$
0.3667	0.2000	$3.316 \times 10^{-2}$	$1.450 \times 10^{-2}$	$-8.254 \times 10^{-5}$	$5.806 \times 10^{-3}$
0.4000	0.2000	$3.115 \times 10^{-2}$	$1.283 \times 10^{-2}$	$2.260 \times 10^{-5}$	$4.996 \times 10^{-3}$
0.4333	0.2000	$3.038 \times 10^{-2}$	$1.137 \times 10^{-2}$	$4.965 \times 10^{-4}$	$4.535 \times 10^{-3}$
0.4667	0.2000	$3.208 \times 10^{-2}$	$1.052 \times 10^{-2}$	$2.302 \times 10^{-4}$	$4.533 \times 10^{-3}$
0.5000	0.2000	$3.592 \times 10^{-2}$	$9.143 \times 10^{-3}$	$6.602 \times 10^{-4}$	$4.546 \times 10^{-3}$
0.5333	0.2000	$4.667 \times 10^{-2}$	$4.770 \times 10^{-3}$	$1.815 \times 10^{-3}$	$3.861 \times 10^{-3}$
0.5667	0.2000	$5.736 \times 10^{-2}$	$1.544 \times 10^{-3}$	$2.715 \times 10^{-3}$	$3.545 \times 10^{-3}$
0.6000	0.2000	$6.849 \times 10^{-2}$	$-5.706 \times 10^{-4}$	$3.384 \times 10^{-3}$	$2.849 \times 10^{-3}$
0.6333	0.2000	$7.512 \times 10^{-2}$	$-9.464 \times 10^{-4}$	$4.016 \times 10^{-3}$	$2.581 \times 10^{-3}$
0.6667	0.2000	$7.820 \times 10^{-2}$	$-1.229 \times 10^{-3}$	$4.730 \times 10^{-3}$	$2.564 \times 10^{-3}$
0.7000	0.2000	$7.986 \times 10^{-2}$	$-2.680 \times 10^{-3}$	$7.180 \times 10^{-3}$	$3.408 \times 10^{-3}$
0.7333	0.2000	$8.542 \times 10^{-2}$	$-4.047 \times 10^{-3}$	$1.157 \times 10^{-2}$	$4.684 \times 10^{-3}$
0.7667	0.2000	$1.023 \times 10^{-1}$	$-2.451 \times 10^{-3}$	$1.620 \times 10^{-2}$	$6.088 \times 10^{-3}$
0.8000	0.2000	$1.263 \times 10^{-1}$	$4.610 \times 10^{-3}$	$1.749 \times 10^{-2}$	$7.135 \times 10^{-3}$
0.8333	0.2000	$1.333 \times 10^{-1}$	$1.581 \times 10^{-2}$	$1.003 \times 10^{-2}$	$6.249 \times 10^{-3}$
0.8667	0.2000	$1.158 \times 10^{-1}$	$1.820 \times 10^{-2}$	$2.774 \times 10^{-3}$	$4.400 \times 10^{-3}$
0.9000	0.2000	$8.715 \times 10^{-2}$	$1.791 \times 10^{-2}$	$-3.498 \times 10^{-3}$	$2.842 \times 10^{-3}$
0.9333	0.2000	$6.033 \times 10^{-2}$	$1.343 \times 10^{-2}$	$-5.963 \times 10^{-3}$	$1.551 \times 10^{-3}$
0.9667	0.2000	$4.654 \times 10^{-2}$	$1.152 \times 10^{-2}$	$-5.948 \times 10^{-3}$	$1.096 \times 10^{-3}$
1.0000	0.2000	$3.102 \times 10^{-2}$	$1.141 \times 10^{-2}$	$-5.104 \times 10^{-3}$	$8.841 \times 10^{-4}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.0000	0.2333	$4.661 \times 10^{-2}$	$5.233 \times 10^{-2}$	$-1.369 \times 10^{-4}$	$2.229 \times 10^{-2}$
0.0333	0.2333	$3.732 \times 10^{-2}$	$4.013 \times 10^{-2}$	$3.906 \times 10^{-5}$	$1.666 \times 10^{-2}$
0.0667	0.2333	$4.110 \times 10^{-2}$	$3.445 \times 10^{-2}$	$1.162 \times 10^{-4}$	$1.418 \times 10^{-2}$
0.1000	0.2333	$3.743 \times 10^{-2}$	$2.630 \times 10^{-2}$	$-2.144 \times 10^{-4}$	$1.075 \times 10^{-2}$
0.1333	0.2333	$3.560 \times 10^{-2}$	$2.163 \times 10^{-2}$	$-1.050 \times 10^{-5}$	$8.766 \times 10^{-3}$
0.1667	0.2333	$3.166 \times 10^{-2}$	$2.220 \times 10^{-2}$	$2.186 \times 10^{-4}$	$8.911 \times 10^{-3}$
0.2000	0.2333	$3.834 \times 10^{-2}$	$2.479 \times 10^{-2}$	$1.479 \times 10^{-4}$	$1.023 \times 10^{-2}$
0.2333	0.2333	$3.754 \times 10^{-2}$	$2.141 \times 10^{-2}$	$3.666 \times 10^{-6}$	$8.666 \times 10^{-3}$
0.2667	0.2333	$3.325 \times 10^{-2}$	$1.759 \times 10^{-2}$	$1.487 \times 10^{-4}$	$6.814 \times 10^{-3}$
0.3000	0.2333	$3.318 \times 10^{-2}$	$1.622 \times 10^{-2}$	$2.706 \times 10^{-4}$	$6.477 \times 10^{-3}$
0.3333	0.2333	$3.359 \times 10^{-2}$	$1.545 \times 10^{-2}$	$-1.395 \times 10^{-4}$	$6.213 \times 10^{-3}$
0.3667	0.2333	$3.296 \times 10^{-2}$	$1.420 \times 10^{-2}$	$-1.855 \times 10^{-4}$	$5.637 \times 10^{-3}$
0.4000	0.2333	$3.138 \times 10^{-2}$	$1.289 \times 10^{-2}$	$-9.096 \times 10^{-5}$	$4.916 \times 10^{-3}$
0.4333	0.2333	$2.984 \times 10^{-2}$	$1.145 \times 10^{-2}$	$1.982 \times 10^{-4}$	$4.426 \times 10^{-3}$
0.4667	0.2333	$3.145 \times 10^{-2}$	$1.053 \times 10^{-2}$	$1.082 \times 10^{-4}$	$4.369 \times 10^{-3}$
0.5000	0.2333	$3.457 \times 10^{-2}$	$9.424 \times 10^{-3}$	$6.713 \times 10^{-4}$	$4.470 \times 10^{-3}$
0.5333	0.2333	$4.194 \times 10^{-2}$	$6.722 \times 10^{-3}$	$1.535 \times 10^{-3}$	$4.259 \times 10^{-3}$
0.5667	0.2333	$5.320 \times 10^{-2}$	$2.482 \times 10^{-3}$	$2.565 \times 10^{-3}$	$3.601 \times 10^{-3}$
0.6000	0.2333	$6.299 \times 10^{-2}$	$4.601 \times 10^{-4}$	$3.572 \times 10^{-3}$	$3.040 \times 10^{-3}$
0.6333	0.2333	$7.081 \times 10^{-2}$	$-3.209 \times 10^{-4}$	$3.943 \times 10^{-3}$	$2.630 \times 10^{-3}$
0.6667	0.2333	$7.474 \times 10^{-2}$	$-2.434 \times 10^{-4}$	$4.419 \times 10^{-3}$	$2.413 \times 10^{-3}$
0.7000	0.2333	$7.591 \times 10^{-2}$	$-6.730 \times 10^{-4}$	$5.709 \times 10^{-3}$	$2.698 \times 10^{-3}$
0.7333	0.2333	$7.587 \times 10^{-2}$	$-1.472 \times 10^{-3}$	$8.570 \times 10^{-3}$	$3.504 \times 10^{-3}$
0.7667	0.2333	$8.148 \times 10^{-2}$	$-1.767 \times 10^{-3}$	$1.271 \times 10^{-2}$	$4.563 \times 10^{-3}$
0.8000	0.2333	$9.328 \times 10^{-2}$	$7.590 \times 10^{-6}$	$1.593 \times 10^{-2}$	$5.391 \times 10^{-3}$
0.8333	0.2333	$1.107 \times 10^{-1}$	$6.116 \times 10^{-3}$	$1.677 \times 10^{-2}$	$5.886 \times 10^{-3}$
0.8667	0.2333	$1.186 \times 10^{-1}$	$1.319 \times 10^{-2}$	$1.224 \times 10^{-2}$	$5.214 \times 10^{-3}$
0.9000	0.2333	$1.141 \times 10^{-1}$	$1.676 \times 10^{-2}$	$7.764 \times 10^{-3}$	$4.497 \times 10^{-3}$
0.9333	0.2333	$9.300 \times 10^{-2}$	$1.772 \times 10^{-2}$	$8.125 \times 10^{-4}$	$2.882 \times 10^{-3}$
0.9667	0.2333	$7.450 \times 10^{-2}$	$1.711 \times 10^{-2}$	$-2.603 \times 10^{-3}$	$2.106 \times 10^{-3}$
1.0000	0.2333	$5.485 \times 10^{-2}$	$1.869 \times 10^{-2}$	$-3.236 \times 10^{-3}$	$1.708 \times 10^{-3}$
0.0000	0.2667	$4.422 \times 10^{-2}$	$4.977 \times 10^{-2}$	$1.944 \times 10^{-4}$	$2.109 \times 10^{-2}$
0.0333	0.2667	$3.936 \times 10^{-2}$	$4.095 \times 10^{-2}$	$-1.820 \times 10^{-5}$	$1.706 \times 10^{-2}$
0.0667	0.2667	$4.059 \times 10^{-2}$	$3.480 \times 10^{-2}$	$-1.191 \times 10^{-4}$	$1.431 \times 10^{-2}$
0.1000	0.2667	$3.702 \times 10^{-2}$	$2.599 \times 10^{-2}$	$-4.294 \times 10^{-6}$	$1.049 \times 10^{-2}$
0.1333	0.2667	$3.591 \times 10^{-2}$	$2.161 \times 10^{-2}$	$5.581 \times 10^{-6}$	$8.827 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.1667	0.2667	$3.164 \times 10^{-2}$	$2.242 \times 10^{-2}$	$2.476 \times 10^{-4}$	$8.974 \times 10^{-3}$
0.2000	0.2667	$3.880 \times 10^{-2}$	$2.560 \times 10^{-2}$	$3.421 \times 10^{-4}$	$1.050 \times 10^{-2}$
0.2333	0.2667	$3.739 \times 10^{-2}$	$2.085 \times 10^{-2}$	$-1.772 \times 10^{-5}$	$8.435 \times 10^{-3}$
0.2667	0.2667	$3.331 \times 10^{-2}$	$1.748 \times 10^{-2}$	$8.801 \times 10^{-5}$	$6.782 \times 10^{-3}$
0.3000	0.2667	$3.359 \times 10^{-2}$	$1.649 \times 10^{-2}$	$1.286 \times 10^{-4}$	$6.657 \times 10^{-3}$
0.3333	0.2667	$3.344 \times 10^{-2}$	$1.556 \times 10^{-2}$	$-7.587 \times 10^{-5}$	$6.206 \times 10^{-3}$
0.3667	0.2667	$3.262 \times 10^{-2}$	$1.427 \times 10^{-2}$	$-1.323 \times 10^{-4}$	$5.595 \times 10^{-3}$
0.4000	0.2667	$3.139 \times 10^{-2}$	$1.306 \times 10^{-2}$	$1.475 \times 10^{-4}$	$5.066 \times 10^{-3}$
0.4333	0.2667	$3.007 \times 10^{-2}$	$1.154 \times 10^{-2}$	$2.025 \times 10^{-4}$	$4.556 \times 10^{-3}$
0.4667	0.2667	$3.050 \times 10^{-2}$	$1.061 \times 10^{-2}$	$1.889 \times 10^{-4}$	$4.234 \times 10^{-3}$
0.5000	0.2667	$3.309 \times 10^{-2}$	$9.715 \times 10^{-3}$	$6.013 \times 10^{-4}$	$4.389 \times 10^{-3}$
0.5333	0.2667	$3.883 \times 10^{-2}$	$7.985 \times 10^{-3}$	$1.292 \times 10^{-3}$	$4.447 \times 10^{-3}$
0.5667	0.2667	$4.795 \times 10^{-2}$	$4.047 \times 10^{-3}$	$2.521 \times 10^{-3}$	$3.663 \times 10^{-3}$
0.6000	0.2667	$5.767 \times 10^{-2}$	$1.402 \times 10^{-3}$	$3.550 \times 10^{-3}$	$3.205 \times 10^{-3}$
0.6333	0.2667	$6.568 \times 10^{-2}$	$3.864 \times 10^{-4}$	$4.182 \times 10^{-3}$	$2.760 \times 10^{-3}$
0.6667	0.2667	$7.097 \times 10^{-2}$	$2.762 \times 10^{-4}$	$4.374 \times 10^{-3}$	$2.474 \times 10^{-3}$
0.7000	0.2667	$7.279 \times 10^{-2}$	$3.300 \times 10^{-4}$	$4.927 \times 10^{-3}$	$2.374 \times 10^{-3}$
0.7333	0.2667	$7.261 \times 10^{-2}$	$1.070 \times 10^{-4}$	$6.448 \times 10^{-3}$	$2.769 \times 10^{-3}$
0.7667	0.2667	$7.201 \times 10^{-2}$	$-2.211 \times 10^{-5}$	$9.000 \times 10^{-3}$	$3.380 \times 10^{-3}$
0.8000	0.2667	$7.631 \times 10^{-2}$	$3.069 \times 10^{-4}$	$1.309 \times 10^{-2}$	$4.316 \times 10^{-3}$
0.8333	0.2667	$8.445 \times 10^{-2}$	$2.467 \times 10^{-3}$	$1.556 \times 10^{-2}$	$4.878 \times 10^{-3}$
0.8667	0.2667	$9.625 \times 10^{-2}$	$7.222 \times 10^{-3}$	$1.662 \times 10^{-2}$	$5.239 \times 10^{-3}$
0.9000	0.2667	$9.930 \times 10^{-2}$	$1.078 \times 10^{-2}$	$1.475 \times 10^{-2}$	$4.740 \times 10^{-3}$
0.9333	0.2667	$9.943 \times 10^{-2}$	$1.483 \times 10^{-2}$	$1.036 \times 10^{-2}$	$3.897 \times 10^{-3}$
0.9667	0.2667	$9.058 \times 10^{-2}$	$1.791 \times 10^{-2}$	$7.819 \times 10^{-3}$	$3.415 \times 10^{-3}$
1.0000	0.2667	$7.142 \times 10^{-2}$	$2.199 \times 10^{-2}$	$4.017 \times 10^{-3}$	$2.873 \times 10^{-3}$
0.0000	0.3000	$4.485 \times 10^{-2}$	$5.080 \times 10^{-2}$	$1.074 \times 10^{-4}$	$2.139 \times 10^{-2}$
0.0333	0.3000	$3.811 \times 10^{-2}$	$4.089 \times 10^{-2}$	$-1.462 \times 10^{-4}$	$1.697 \times 10^{-2}$
0.0667	0.3000	$4.111 \times 10^{-2}$	$3.310 \times 10^{-2}$	$3.624 \times 10^{-4}$	$1.349 \times 10^{-2}$
0.1000	0.3000	$3.738 \times 10^{-2}$	$2.630 \times 10^{-2}$	$1.754 \times 10^{-4}$	$1.071 \times 10^{-2}$
0.1333	0.3000	$3.554 \times 10^{-2}$	$2.138 \times 10^{-2}$	$1.240 \times 10^{-4}$	$8.611 \times 10^{-3}$
0.1667	0.3000	$3.031 \times 10^{-2}$	$2.152 \times 10^{-2}$	$3.373 \times 10^{-4}$	$8.388 \times 10^{-3}$
0.2000	0.3000	$3.723 \times 10^{-2}$	$2.431 \times 10^{-2}$	$-1.112 \times 10^{-4}$	$1.007 \times 10^{-2}$
0.2333	0.3000	$3.758 \times 10^{-2}$	$2.149 \times 10^{-2}$	$8.677 \times 10^{-5}$	$8.884 \times 10^{-3}$
0.2667	0.3000	$3.298 \times 10^{-2}$	$1.764 \times 10^{-2}$	$1.462 \times 10^{-4}$	$6.833 \times 10^{-3}$
0.3000	0.3000	$3.279 \times 10^{-2}$	$1.635 \times 10^{-2}$	$1.331 \times 10^{-4}$	$6.721 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.3333	0.3000	$3.366 \times 10^{-2}$	$1.560 \times 10^{-2}$	$-2.615 \times 10^{-6}$	$6.343 \times 10^{-3}$
0.3667	0.3000	$3.311 \times 10^{-2}$	$1.450 \times 10^{-2}$	$-4.436 \times 10^{-5}$	$5.663 \times 10^{-3}$
0.4000	0.3000	$3.078 \times 10^{-2}$	$1.261 \times 10^{-2}$	$4.782 \times 10^{-5}$	$4.929 \times 10^{-3}$
0.4333	0.3000	$3.013 \times 10^{-2}$	$1.181 \times 10^{-2}$	$-1.804 \times 10^{-4}$	$4.604 \times 10^{-3}$
0.4667	0.3000	$3.060 \times 10^{-2}$	$1.081 \times 10^{-2}$	$1.920 \times 10^{-4}$	$4.303 \times 10^{-3}$
0.5000	0.3000	$3.159 \times 10^{-2}$	$1.020 \times 10^{-2}$	$5.102 \times 10^{-4}$	$4.300 \times 10^{-3}$
0.5333	0.3000	$3.511 \times 10^{-2}$	$8.345 \times 10^{-3}$	$1.245 \times 10^{-3}$	$4.287 \times 10^{-3}$
0.5667	0.3000	$4.348 \times 10^{-2}$	$5.598 \times 10^{-3}$	$2.034 \times 10^{-3}$	$3.828 \times 10^{-3}$
0.6000	0.3000	$5.212 \times 10^{-2}$	$2.356 \times 10^{-3}$	$3.223 \times 10^{-3}$	$3.334 \times 10^{-3}$
0.6333	0.3000	$5.967 \times 10^{-2}$	$1.088 \times 10^{-3}$	$4.047 \times 10^{-3}$	$2.897 \times 10^{-3}$
0.6667	0.3000	$6.570 \times 10^{-2}$	$6.940 \times 10^{-4}$	$4.453 \times 10^{-3}$	$2.587 \times 10^{-3}$
0.7000	0.3000	$6.957 \times 10^{-2}$	$9.738 \times 10^{-4}$	$4.846 \times 10^{-3}$	$2.362 \times 10^{-3}$
0.7333	0.3000	$6.989 \times 10^{-2}$	$1.185 \times 10^{-3}$	$5.064 \times 10^{-3}$	$2.368 \times 10^{-3}$
0.7667	0.3000	$6.926 \times 10^{-2}$	$9.567 \times 10^{-4}$	$6.592 \times 10^{-3}$	$2.697 \times 10^{-3}$
0.8000	0.3000	$6.778 \times 10^{-2}$	$1.110 \times 10^{-3}$	$8.770 \times 10^{-3}$	$3.137 \times 10^{-3}$
0.8333	0.3000	$6.978 \times 10^{-2}$	$1.817 \times 10^{-3}$	$1.181 \times 10^{-2}$	$3.735 \times 10^{-3}$
0.8667	0.3000	$7.279 \times 10^{-2}$	$3.791 \times 10^{-3}$	$1.400 \times 10^{-2}$	$4.074 \times 10^{-3}$
0.9000	0.3000	$7.974 \times 10^{-2}$	$6.419 \times 10^{-3}$	$1.475 \times 10^{-2}$	$4.226 \times 10^{-3}$
0.9333	0.3000	$8.011 \times 10^{-2}$	$9.327 \times 10^{-3}$	$1.397 \times 10^{-2}$	$3.894 \times 10^{-3}$
0.9667	0.3000	$8.022 \times 10^{-2}$	$1.418 \times 10^{-2}$	$1.256 \times 10^{-2}$	$3.667 \times 10^{-3}$
1.0000	0.3000	$6.636 \times 10^{-2}$	$2.093 \times 10^{-2}$	$1.118 \times 10^{-2}$	$3.546 \times 10^{-3}$
0.0000	0.3333	$5.475 \times 10^{-2}$	$6.234 \times 10^{-2}$	$1.265 \times 10^{-5}$	$2.714 \times 10^{-2}$
0.0333	0.3333	$4.269 \times 10^{-2}$	$4.227 \times 10^{-2}$	$3.813 \times 10^{-4}$	$1.750 \times 10^{-2}$
0.0667	0.3333	$3.981 \times 10^{-2}$	$3.309 \times 10^{-2}$	$-4.800 \times 10^{-4}$	$1.356 \times 10^{-2}$
0.1000	0.3333	$3.594 \times 10^{-2}$	$2.443 \times 10^{-2}$	$-2.242 \times 10^{-5}$	$9.933 \times 10^{-3}$
0.1333	0.3333	$3.596 \times 10^{-2}$	$2.160 \times 10^{-2}$	$2.931 \times 10^{-5}$	$8.822 \times 10^{-3}$
0.1667	0.3333	$3.116 \times 10^{-2}$	$2.217 \times 10^{-2}$	$5.068 \times 10^{-5}$	$8.872 \times 10^{-3}$
0.2000	0.3333	$3.723 \times 10^{-2}$	$2.461 \times 10^{-2}$	$-1.331 \times 10^{-4}$	$1.008 \times 10^{-2}$
0.2333	0.3333	$3.743 \times 10^{-2}$	$2.100 \times 10^{-2}$	$-8.585 \times 10^{-5}$	$8.457 \times 10^{-3}$
0.2667	0.3333	$3.380 \times 10^{-2}$	$1.815 \times 10^{-2}$	$-4.613 \times 10^{-5}$	$7.081 \times 10^{-3}$
0.3000	0.3333	$3.399 \times 10^{-2}$	$1.688 \times 10^{-2}$	$5.041 \times 10^{-5}$	$6.788 \times 10^{-3}$
0.3333	0.3333	$3.345 \times 10^{-2}$	$1.581 \times 10^{-2}$	$1.899 \times 10^{-4}$	$6.292 \times 10^{-3}$
0.3667	0.3333	$3.303 \times 10^{-2}$	$1.441 \times 10^{-2}$	$1.693 \times 10^{-4}$	$5.626 \times 10^{-3}$
0.4000	0.3333	$3.147 \times 10^{-2}$	$1.322 \times 10^{-2}$	$-1.131 \times 10^{-4}$	$5.086 \times 10^{-3}$
0.4333	0.3333	$3.012 \times 10^{-2}$	$1.165 \times 10^{-2}$	$1.835 \times 10^{-5}$	$4.583 \times 10^{-3}$
0.4667	0.3333	$3.031 \times 10^{-2}$	$1.092 \times 10^{-2}$	$4.332 \times 10^{-5}$	$4.395 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5000	0.3333	$3.089 \times 10^{-2}$	$1.023 \times 10^{-2}$	$5.021 \times 10^{-4}$	$4.194 \times 10^{-3}$
0.5333	0.3333	$3.303 \times 10^{-2}$	$9.220 \times 10^{-3}$	$8.136 \times 10^{-4}$	$4.155 \times 10^{-3}$
0.5667	0.3333	$3.848 \times 10^{-2}$	$7.201 \times 10^{-3}$	$1.822 \times 10^{-3}$	$4.081 \times 10^{-3}$
0.6000	0.3333	$4.603 \times 10^{-2}$	$3.951 \times 10^{-3}$	$2.883 \times 10^{-3}$	$3.423 \times 10^{-3}$
0.6333	0.3333	$5.454 \times 10^{-2}$	$2.215 \times 10^{-3}$	$3.774 \times 10^{-3}$	$3.180 \times 10^{-3}$
0.6667	0.3333	$6.022 \times 10^{-2}$	$1.498 \times 10^{-3}$	$4.553 \times 10^{-3}$	$2.886 \times 10^{-3}$
0.7000	0.3333	$6.450 \times 10^{-2}$	$1.305 \times 10^{-3}$	$4.769 \times 10^{-3}$	$2.517 \times 10^{-3}$
0.7333	0.3333	$6.680 \times 10^{-2}$	$1.412 \times 10^{-3}$	$4.986 \times 10^{-3}$	$2.314 \times 10^{-3}$
0.7667	0.3333	$6.646 \times 10^{-2}$	$1.857 \times 10^{-3}$	$5.205 \times 10^{-3}$	$2.254 \times 10^{-3}$
0.8000	0.3333	$6.510 \times 10^{-2}$	$2.005 \times 10^{-3}$	$6.391 \times 10^{-3}$	$2.526 \times 10^{-3}$
0.8333	0.3333	$6.352 \times 10^{-2}$	$2.376 \times 10^{-3}$	$8.923 \times 10^{-3}$	$3.119 \times 10^{-3}$
0.8667	0.3333	$6.372 \times 10^{-2}$	$3.446 \times 10^{-3}$	$1.143 \times 10^{-2}$	$3.654 \times 10^{-3}$
0.9000	0.3333	$6.362 \times 10^{-2}$	$5.326 \times 10^{-3}$	$1.250 \times 10^{-2}$	$3.748 \times 10^{-3}$
0.9333	0.3333	$6.557 \times 10^{-2}$	$7.530 \times 10^{-3}$	$1.372 \times 10^{-2}$	$3.790 \times 10^{-3}$
0.9667	0.3333	$6.098 \times 10^{-2}$	$1.023 \times 10^{-2}$	$1.291 \times 10^{-2}$	$3.448 \times 10^{-3}$
1.0000	0.3333	$5.193 \times 10^{-2}$	$1.539 \times 10^{-2}$	$1.213 \times 10^{-2}$	$3.401 \times 10^{-3}$
0.0000	0.3667	$4.337 \times 10^{-2}$	$4.934 \times 10^{-2}$	$-3.359 \times 10^{-5}$	$2.098 \times 10^{-2}$
0.0333	0.3667	$3.969 \times 10^{-2}$	$4.155 \times 10^{-2}$	$2.562 \times 10^{-4}$	$1.726 \times 10^{-2}$
0.0667	0.3667	$4.013 \times 10^{-2}$	$3.207 \times 10^{-2}$	$-1.430 \times 10^{-5}$	$1.319 \times 10^{-2}$
0.1000	0.3667	$3.651 \times 10^{-2}$	$2.568 \times 10^{-2}$	$-2.088 \times 10^{-4}$	$1.039 \times 10^{-2}$
0.1333	0.3667	$3.539 \times 10^{-2}$	$2.134 \times 10^{-2}$	$-1.517 \times 10^{-4}$	$8.692 \times 10^{-3}$
0.1667	0.3667	$3.047 \times 10^{-2}$	$2.084 \times 10^{-2}$	$2.033 \times 10^{-4}$	$8.222 \times 10^{-3}$
0.2000	0.3667	$3.844 \times 10^{-2}$	$2.489 \times 10^{-2}$	$-1.864 \times 10^{-4}$	$1.027 \times 10^{-2}$
0.2333	0.3667	$3.817 \times 10^{-2}$	$2.157 \times 10^{-2}$	$6.129 \times 10^{-5}$	$8.973 \times 10^{-3}$
0.2667	0.3667	$3.323 \times 10^{-2}$	$1.771 \times 10^{-2}$	$-9.943 \times 10^{-5}$	$6.866 \times 10^{-3}$
0.3000	0.3667	$3.277 \times 10^{-2}$	$1.652 \times 10^{-2}$	$2.105 \times 10^{-4}$	$6.690 \times 10^{-3}$
0.3333	0.3667	$3.336 \times 10^{-2}$	$1.559 \times 10^{-2}$	$-1.004 \times 10^{-4}$	$6.263 \times 10^{-3}$
0.3667	0.3667	$3.319 \times 10^{-2}$	$1.465 \times 10^{-2}$	$-1.664 \times 10^{-4}$	$5.797 \times 10^{-3}$
0.4000	0.3667	$3.081 \times 10^{-2}$	$1.291 \times 10^{-2}$	$7.264 \times 10^{-5}$	$4.972 \times 10^{-3}$
0.4333	0.3667	$3.027 \times 10^{-2}$	$1.192 \times 10^{-2}$	$-1.728 \times 10^{-4}$	$4.502 \times 10^{-3}$
0.4667	0.3667	$3.027 \times 10^{-2}$	$1.103 \times 10^{-2}$	$3.147 \times 10^{-4}$	$4.455 \times 10^{-3}$
0.5000	0.3667	$3.019 \times 10^{-2}$	$1.040 \times 10^{-2}$	$3.906 \times 10^{-4}$	$4.218 \times 10^{-3}$
0.5333	0.3667	$3.158 \times 10^{-2}$	$9.474 \times 10^{-3}$	$4.284 \times 10^{-4}$	$4.109 \times 10^{-3}$
0.5667	0.3667	$3.388 \times 10^{-2}$	$8.323 \times 10^{-3}$	$1.415 \times 10^{-3}$	$4.130 \times 10^{-3}$
0.6000	0.3667	$4.120 \times 10^{-2}$	$5.403 \times 10^{-3}$	$2.470 \times 10^{-3}$	$3.565 \times 10^{-3}$
0.6333	0.3667	$4.794 \times 10^{-2}$	$3.581 \times 10^{-3}$	$3.415 \times 10^{-3}$	$3.261 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6667	0.3667	$5.456 \times 10^{-2}$	$2.317 \times 10^{-3}$	$4.453 \times 10^{-3}$	$3.066 \times 10^{-3}$
0.7000	0.3667	$5.913 \times 10^{-2}$	$2.218 \times 10^{-3}$	$4.867 \times 10^{-3}$	$2.757 \times 10^{-3}$
0.7333	0.3667	$6.200 \times 10^{-2}$	$1.978 \times 10^{-3}$	$5.276 \times 10^{-3}$	$2.516 \times 10^{-3}$
0.7667	0.3667	$6.339 \times 10^{-2}$	$2.547 \times 10^{-3}$	$5.495 \times 10^{-3}$	$2.397 \times 10^{-3}$
0.8000	0.3667	$6.206 \times 10^{-2}$	$2.632 \times 10^{-3}$	$6.029 \times 10^{-3}$	$2.375 \times 10^{-3}$
0.8333	0.3667	$6.098 \times 10^{-2}$	$2.957 \times 10^{-3}$	$6.418 \times 10^{-3}$	$2.472 \times 10^{-3}$
0.8667	0.3667	$5.811 \times 10^{-2}$	$3.392 \times 10^{-3}$	$8.043 \times 10^{-3}$	$2.737 \times 10^{-3}$
0.9000	0.3667	$5.653 \times 10^{-2}$	$3.972 \times 10^{-3}$	$9.449 \times 10^{-3}$	$2.914 \times 10^{-3}$
0.9333	0.3667	$5.358 \times 10^{-2}$	$5.528 \times 10^{-3}$	$9.907 \times 10^{-3}$	$2.871 \times 10^{-3}$
0.9667	0.3667	$4.820 \times 10^{-2}$	$8.557 \times 10^{-3}$	$1.094 \times 10^{-2}$	$3.072 \times 10^{-3}$
1.0000	0.3667	$4.360 \times 10^{-2}$	$1.404 \times 10^{-2}$	$1.250 \times 10^{-2}$	$4.016 \times 10^{-3}$
0.0000	0.4000	$5.302 \times 10^{-2}$	$6.034 \times 10^{-2}$	$-3.040 \times 10^{-4}$	$2.612 \times 10^{-2}$
0.0333	0.4000	$4.016 \times 10^{-2}$	$4.123 \times 10^{-2}$	$6.521 \times 10^{-5}$	$1.713 \times 10^{-2}$
0.0667	0.4000	$4.257 \times 10^{-2}$	$3.517 \times 10^{-2}$	$-3.291 \times 10^{-4}$	$1.447 \times 10^{-2}$
0.1000	0.4000	$3.671 \times 10^{-2}$	$2.554 \times 10^{-2}$	$-8.132 \times 10^{-5}$	$1.032 \times 10^{-2}$
0.1333	0.4000	$3.547 \times 10^{-2}$	$2.134 \times 10^{-2}$	$6.418 \times 10^{-5}$	$8.720 \times 10^{-3}$
0.1667	0.4000	$3.118 \times 10^{-2}$	$2.171 \times 10^{-2}$	$4.509 \times 10^{-5}$	$8.654 \times 10^{-3}$
0.2000	0.4000	$3.800 \times 10^{-2}$	$2.530 \times 10^{-2}$	$5.440 \times 10^{-5}$	$1.046 \times 10^{-2}$
0.2333	0.4000	$3.796 \times 10^{-2}$	$2.124 \times 10^{-2}$	$6.593 \times 10^{-5}$	$8.609 \times 10^{-3}$
0.2667	0.4000	$3.290 \times 10^{-2}$	$1.751 \times 10^{-2}$	$-5.914 \times 10^{-5}$	$6.719 \times 10^{-3}$
0.3000	0.4000	$3.235 \times 10^{-2}$	$1.613 \times 10^{-2}$	$-3.630 \times 10^{-5}$	$6.502 \times 10^{-3}$
0.3333	0.4000	$3.304 \times 10^{-2}$	$1.551 \times 10^{-2}$	$4.992 \times 10^{-5}$	$6.246 \times 10^{-3}$
0.3667	0.4000	$3.269 \times 10^{-2}$	$1.418 \times 10^{-2}$	$1.561 \times 10^{-4}$	$5.612 \times 10^{-3}$
0.4000	0.4000	$3.094 \times 10^{-2}$	$1.274 \times 10^{-2}$	$6.685 \times 10^{-5}$	$4.991 \times 10^{-3}$
0.4333	0.4000	$2.927 \times 10^{-2}$	$1.164 \times 10^{-2}$	$3.297 \times 10^{-4}$	$4.495 \times 10^{-3}$
0.4667	0.4000	$2.952 \times 10^{-2}$	$1.107 \times 10^{-2}$	$1.171 \times 10^{-4}$	$4.430 \times 10^{-3}$
0.5000	0.4000	$2.956 \times 10^{-2}$	$1.043 \times 10^{-2}$	$2.149 \times 10^{-4}$	$4.137 \times 10^{-3}$
0.5333	0.4000	$3.010 \times 10^{-2}$	$9.481 \times 10^{-3}$	$5.230 \times 10^{-4}$	$3.937 \times 10^{-3}$
0.5667	0.4000	$3.210 \times 10^{-2}$	$8.556 \times 10^{-3}$	$1.163 \times 10^{-3}$	$3.983 \times 10^{-3}$
0.6000	0.4000	$3.579 \times 10^{-2}$	$7.234 \times 10^{-3}$	$1.859 \times 10^{-3}$	$3.997 \times 10^{-3}$
0.6333	0.4000	$4.243 \times 10^{-2}$	$4.881 \times 10^{-3}$	$2.945 \times 10^{-3}$	$3.434 \times 10^{-3}$
0.6667	0.4000	$4.812 \times 10^{-2}$	$3.287 \times 10^{-3}$	$4.121 \times 10^{-3}$	$3.266 \times 10^{-3}$
0.7000	0.4000	$5.357 \times 10^{-2}$	$2.654 \times 10^{-3}$	$4.592 \times 10^{-3}$	$2.939 \times 10^{-3}$
0.7333	0.4000	$5.668 \times 10^{-2}$	$2.234 \times 10^{-3}$	$5.159 \times 10^{-3}$	$2.658 \times 10^{-3}$
0.7667	0.4000	$5.837 \times 10^{-2}$	$2.606 \times 10^{-3}$	$5.534 \times 10^{-3}$	$2.435 \times 10^{-3}$
0.8000	0.4000	$5.867 \times 10^{-2}$	$2.682 \times 10^{-3}$	$5.327 \times 10^{-3}$	$2.213 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8333	0.4000	$5.790 \times 10^{-2}$	$3.213 \times 10^{-3}$	$5.710 \times 10^{-3}$	$2.123 \times 10^{-3}$
0.8667	0.4000	$5.567 \times 10^{-2}$	$3.730 \times 10^{-3}$	$5.860 \times 10^{-3}$	$2.238 \times 10^{-3}$
0.9000	0.4000	$5.247 \times 10^{-2}$	$4.242 \times 10^{-3}$	$6.519 \times 10^{-3}$	$2.237 \times 10^{-3}$
0.9333	0.4000	$4.916 \times 10^{-2}$	$4.909 \times 10^{-3}$	$7.033 \times 10^{-3}$	$2.290 \times 10^{-3}$
0.9667	0.4000	$4.266 \times 10^{-2}$	$7.573 \times 10^{-3}$	$8.173 \times 10^{-3}$	$2.691 \times 10^{-3}$
1.0000	0.4000	$3.978 \times 10^{-2}$	$1.262 \times 10^{-2}$	$1.042 \times 10^{-2}$	$3.755 \times 10^{-3}$
0.0000	0.4333	$5.471 \times 10^{-2}$	$6.125 \times 10^{-2}$	$9.967 \times 10^{-5}$	$2.685 \times 10^{-2}$
0.0333	0.4333	$3.803 \times 10^{-2}$	$4.102 \times 10^{-2}$	$-7.098 \times 10^{-5}$	$1.708 \times 10^{-2}$
0.0667	0.4333	$4.247 \times 10^{-2}$	$3.351 \times 10^{-2}$	$2.428 \times 10^{-4}$	$1.370 \times 10^{-2}$
0.1000	0.4333	$3.699 \times 10^{-2}$	$2.607 \times 10^{-2}$	$-1.077 \times 10^{-4}$	$1.064 \times 10^{-2}$
0.1333	0.4333	$3.522 \times 10^{-2}$	$2.133 \times 10^{-2}$	$-1.078 \times 10^{-5}$	$8.722 \times 10^{-3}$
0.1667	0.4333	$3.074 \times 10^{-2}$	$2.145 \times 10^{-2}$	$-1.740 \times 10^{-5}$	$8.366 \times 10^{-3}$
0.2000	0.4333	$3.766 \times 10^{-2}$	$2.436 \times 10^{-2}$	$-6.048 \times 10^{-5}$	$1.017 \times 10^{-2}$
0.2333	0.4333	$3.746 \times 10^{-2}$	$2.134 \times 10^{-2}$	$-7.038 \times 10^{-5}$	$8.539 \times 10^{-3}$
0.2667	0.4333	$3.340 \times 10^{-2}$	$1.768 \times 10^{-2}$	$5.766 \times 10^{-5}$	$6.867 \times 10^{-3}$
0.3000	0.4333	$3.331 \times 10^{-2}$	$1.678 \times 10^{-2}$	$1.624 \times 10^{-4}$	$6.620 \times 10^{-3}$
0.3333	0.4333	$3.333 \times 10^{-2}$	$1.556 \times 10^{-2}$	$-1.305 \times 10^{-4}$	$6.221 \times 10^{-3}$
0.3667	0.4333	$3.307 \times 10^{-2}$	$1.464 \times 10^{-2}$	$-5.498 \times 10^{-5}$	$5.796 \times 10^{-3}$
0.4000	0.4333	$3.031 \times 10^{-2}$	$1.282 \times 10^{-2}$	$1.193 \times 10^{-5}$	$4.931 \times 10^{-3}$
0.4333	0.4333	$2.909 \times 10^{-2}$	$1.174 \times 10^{-2}$	$1.562 \times 10^{-4}$	$4.575 \times 10^{-3}$
0.4667	0.4333	$2.899 \times 10^{-2}$	$1.098 \times 10^{-2}$	$1.585 \times 10^{-4}$	$4.337 \times 10^{-3}$
0.5000	0.4333	$2.899 \times 10^{-2}$	$1.041 \times 10^{-2}$	$1.693 \times 10^{-4}$	$4.132 \times 10^{-3}$
0.5333	0.4333	$2.935 \times 10^{-2}$	$9.808 \times 10^{-3}$	$5.168 \times 10^{-4}$	$3.919 \times 10^{-3}$
0.5667	0.4333	$2.968 \times 10^{-2}$	$8.932 \times 10^{-3}$	$9.120 \times 10^{-4}$	$3.805 \times 10^{-3}$
0.6000	0.4333	$3.253 \times 10^{-2}$	$7.785 \times 10^{-3}$	$1.610 \times 10^{-3}$	$3.851 \times 10^{-3}$
0.6333	0.4333	$3.625 \times 10^{-2}$	$6.815 \times 10^{-3}$	$2.515 \times 10^{-3}$	$3.812 \times 10^{-3}$
0.6667	0.4333	$4.238 \times 10^{-2}$	$4.293 \times 10^{-3}$	$3.314 \times 10^{-3}$	$3.126 \times 10^{-3}$
0.7000	0.4333	$4.723 \times 10^{-2}$	$3.524 \times 10^{-3}$	$4.323 \times 10^{-3}$	$3.107 \times 10^{-3}$
0.7333	0.4333	$5.130 \times 10^{-2}$	$3.033 \times 10^{-3}$	$4.801 \times 10^{-3}$	$2.809 \times 10^{-3}$
0.7667	0.4333	$5.344 \times 10^{-2}$	$3.121 \times 10^{-3}$	$5.113 \times 10^{-3}$	$2.528 \times 10^{-3}$
0.8000	0.4333	$5.475 \times 10^{-2}$	$3.103 \times 10^{-3}$	$5.364 \times 10^{-3}$	$2.373 \times 10^{-3}$
0.8333	0.4333	$5.430 \times 10^{-2}$	$3.361 \times 10^{-3}$	$5.165 \times 10^{-3}$	$2.197 \times 10^{-3}$
0.8667	0.4333	$5.280 \times 10^{-2}$	$3.692 \times 10^{-3}$	$5.218 \times 10^{-3}$	$2.053 \times 10^{-3}$
0.9000	0.4333	$5.046 \times 10^{-2}$	$4.270 \times 10^{-3}$	$5.245 \times 10^{-3}$	$1.982 \times 10^{-3}$
0.9333	0.4333	$4.647 \times 10^{-2}$	$5.005 \times 10^{-3}$	$5.427 \times 10^{-3}$	$2.025 \times 10^{-3}$
0.9667	0.4333	$4.103 \times 10^{-2}$	$6.935 \times 10^{-3}$	$6.218 \times 10^{-3}$	$2.298 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
1.0000	0.4333	$3.756 \times 10^{-2}$	$1.164 \times 10^{-2}$	$7.753 \times 10^{-3}$	$3.297 \times 10^{-3}$
0.0000	0.4667	$5.176 \times 10^{-2}$	$5.918 \times 10^{-2}$	$8.455 \times 10^{-5}$	$2.564 \times 10^{-2}$
0.0333	0.4667	$3.739 \times 10^{-2}$	$4.003 \times 10^{-2}$	$-4.246 \times 10^{-5}$	$1.663 \times 10^{-2}$
0.0667	0.4667	$4.142 \times 10^{-2}$	$3.589 \times 10^{-2}$	$7.590 \times 10^{-5}$	$1.486 \times 10^{-2}$
0.1000	0.4667	$3.764 \times 10^{-2}$	$2.624 \times 10^{-2}$	$-5.521 \times 10^{-5}$	$1.071 \times 10^{-2}$
0.1333	0.4667	$3.601 \times 10^{-2}$	$2.187 \times 10^{-2}$	$-2.644 \times 10^{-5}$	$8.873 \times 10^{-3}$
0.1667	0.4667	$3.151 \times 10^{-2}$	$2.226 \times 10^{-2}$	$-1.236 \times 10^{-4}$	$8.801 \times 10^{-3}$
0.2000	0.4667	$3.846 \times 10^{-2}$	$2.504 \times 10^{-2}$	$-5.182 \times 10^{-4}$	$1.034 \times 10^{-2}$
0.2333	0.4667	$3.732 \times 10^{-2}$	$2.114 \times 10^{-2}$	$-3.242 \times 10^{-5}$	$8.602 \times 10^{-3}$
0.2667	0.4667	$3.277 \times 10^{-2}$	$1.767 \times 10^{-2}$	$3.447 \times 10^{-5}$	$6.866 \times 10^{-3}$
0.3000	0.4667	$3.327 \times 10^{-2}$	$1.644 \times 10^{-2}$	$2.048 \times 10^{-4}$	$6.676 \times 10^{-3}$
0.3333	0.4667	$3.336 \times 10^{-2}$	$1.553 \times 10^{-2}$	$-5.580 \times 10^{-5}$	$6.301 \times 10^{-3}$
0.3667	0.4667	$3.220 \times 10^{-2}$	$1.426 \times 10^{-2}$	$2.588 \times 10^{-4}$	$5.612 \times 10^{-3}$
0.4000	0.4667	$3.039 \times 10^{-2}$	$1.286 \times 10^{-2}$	$7.767 \times 10^{-5}$	$4.934 \times 10^{-3}$
0.4333	0.4667	$2.842 \times 10^{-2}$	$1.139 \times 10^{-2}$	$1.727 \times 10^{-4}$	$4.369 \times 10^{-3}$
0.4667	0.4667	$2.842 \times 10^{-2}$	$1.089 \times 10^{-2}$	$4.388 \times 10^{-4}$	$4.238 \times 10^{-3}$
0.5000	0.4667	$2.846 \times 10^{-2}$	$1.061 \times 10^{-2}$	$4.529 \times 10^{-4}$	$4.204 \times 10^{-3}$
0.5333	0.4667	$2.816 \times 10^{-2}$	$9.745 \times 10^{-3}$	$4.306 \times 10^{-4}$	$3.903 \times 10^{-3}$
0.5667	0.4667	$2.804 \times 10^{-2}$	$8.862 \times 10^{-3}$	$7.392 \times 10^{-4}$	$3.646 \times 10^{-3}$
0.6000	0.4667	$2.932 \times 10^{-2}$	$8.127 \times 10^{-3}$	$1.427 \times 10^{-3}$	$3.554 \times 10^{-3}$
0.6333	0.4667	$3.296 \times 10^{-2}$	$7.264 \times 10^{-3}$	$2.092 \times 10^{-3}$	$3.621 \times 10^{-3}$
0.6667	0.4667	$3.782 \times 10^{-2}$	$6.665 \times 10^{-3}$	$2.827 \times 10^{-3}$	$3.863 \times 10^{-3}$
0.7000	0.4667	$4.156 \times 10^{-2}$	$4.560 \times 10^{-3}$	$3.776 \times 10^{-3}$	$3.075 \times 10^{-3}$
0.7333	0.4667	$4.501 \times 10^{-2}$	$3.765 \times 10^{-3}$	$4.341 \times 10^{-3}$	$2.919 \times 10^{-3}$
0.7667	0.4667	$4.851 \times 10^{-2}$	$3.326 \times 10^{-3}$	$4.848 \times 10^{-3}$	$2.652 \times 10^{-3}$
0.8000	0.4667	$4.972 \times 10^{-2}$	$3.469 \times 10^{-3}$	$4.777 \times 10^{-3}$	$2.423 \times 10^{-3}$
0.8333	0.4667	$5.040 \times 10^{-2}$	$3.718 \times 10^{-3}$	$4.939 \times 10^{-3}$	$2.290 \times 10^{-3}$
0.8667	0.4667	$4.966 \times 10^{-2}$	$3.929 \times 10^{-3}$	$4.957 \times 10^{-3}$	$2.147 \times 10^{-3}$
0.9000	0.4667	$4.768 \times 10^{-2}$	$4.598 \times 10^{-3}$	$4.613 \times 10^{-3}$	$1.984 \times 10^{-3}$
0.9333	0.4667	$4.469 \times 10^{-2}$	$5.141 \times 10^{-3}$	$4.580 \times 10^{-3}$	$1.956 \times 10^{-3}$
0.9667	0.4667	$3.967 \times 10^{-2}$	$7.176 \times 10^{-3}$	$5.071 \times 10^{-3}$	$2.250 \times 10^{-3}$
1.0000	0.4667	$3.677 \times 10^{-2}$	$1.141 \times 10^{-2}$	$6.630 \times 10^{-3}$	$3.053 \times 10^{-3}$
0.0000	0.5000	$5.321 \times 10^{-2}$	$6.093 \times 10^{-2}$	$-3.241 \times 10^{-4}$	$2.664 \times 10^{-2}$
0.0333	0.5000	$3.845 \times 10^{-2}$	$4.065 \times 10^{-2}$	$2.141 \times 10^{-5}$	$1.687 \times 10^{-2}$
0.0667	0.5000	$4.120 \times 10^{-2}$	$3.522 \times 10^{-2}$	$5.903 \times 10^{-5}$	$1.455 \times 10^{-2}$
0.1000	0.5000	$3.732 \times 10^{-2}$	$2.592 \times 10^{-2}$	$9.633 \times 10^{-6}$	$1.061 \times 10^{-2}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.1333	0.5000	$3.603 \times 10^{-2}$	$2.172 \times 10^{-2}$	$1.560 \times 10^{-4}$	$8.809 \times 10^{-3}$
0.1667	0.5000	$3.156 \times 10^{-2}$	$2.218 \times 10^{-2}$	$-9.806 \times 10^{-5}$	$8.710 \times 10^{-3}$
0.2000	0.5000	$3.733 \times 10^{-2}$	$2.431 \times 10^{-2}$	$1.903 \times 10^{-4}$	$1.008 \times 10^{-2}$
0.2333	0.5000	$3.772 \times 10^{-2}$	$2.155 \times 10^{-2}$	$8.008 \times 10^{-5}$	$8.671 \times 10^{-3}$
0.2667	0.5000	$3.300 \times 10^{-2}$	$1.756 \times 10^{-2}$	$2.911 \times 10^{-4}$	$6.869 \times 10^{-3}$
0.3000	0.5000	$3.323 \times 10^{-2}$	$1.651 \times 10^{-2}$	$7.600 \times 10^{-5}$	$6.529 \times 10^{-3}$
0.3333	0.5000	$3.274 \times 10^{-2}$	$1.546 \times 10^{-2}$	$1.505 \times 10^{-4}$	$6.201 \times 10^{-3}$
0.3667	0.5000	$3.207 \times 10^{-2}$	$1.440 \times 10^{-2}$	$5.567 \times 10^{-4}$	$5.563 \times 10^{-3}$
0.4000	0.5000	$2.997 \times 10^{-2}$	$1.295 \times 10^{-2}$	$2.719 \times 10^{-4}$	$4.938 \times 10^{-3}$
0.4333	0.5000	$2.786 \times 10^{-2}$	$1.138 \times 10^{-2}$	$4.803 \times 10^{-4}$	$4.351 \times 10^{-3}$
0.4667	0.5000	$2.776 \times 10^{-2}$	$1.081 \times 10^{-2}$	$4.156 \times 10^{-4}$	$4.219 \times 10^{-3}$
0.5000	0.5000	$2.786 \times 10^{-2}$	$1.028 \times 10^{-2}$	$5.573 \times 10^{-4}$	$3.966 \times 10^{-3}$
0.5333	0.5000	$2.713 \times 10^{-2}$	$9.740 \times 10^{-3}$	$4.682 \times 10^{-4}$	$3.798 \times 10^{-3}$
0.5667	0.5000	$2.675 \times 10^{-2}$	$9.090 \times 10^{-3}$	$7.660 \times 10^{-4}$	$3.589 \times 10^{-3}$
0.6000	0.5000	$2.765 \times 10^{-2}$	$8.134 \times 10^{-3}$	$1.012 \times 10^{-3}$	$3.409 \times 10^{-3}$
0.6333	0.5000	$2.973 \times 10^{-2}$	$7.412 \times 10^{-3}$	$1.777 \times 10^{-3}$	$3.475 \times 10^{-3}$
0.6667	0.5000	$3.329 \times 10^{-2}$	$6.950 \times 10^{-3}$	$2.690 \times 10^{-3}$	$3.674 \times 10^{-3}$
0.7000	0.5000	$3.642 \times 10^{-2}$	$6.059 \times 10^{-3}$	$3.168 \times 10^{-3}$	$3.479 \times 10^{-3}$
0.7333	0.5000	$4.013 \times 10^{-2}$	$4.615 \times 10^{-3}$	$3.909 \times 10^{-3}$	$2.968 \times 10^{-3}$
0.7667	0.5000	$4.272 \times 10^{-2}$	$3.976 \times 10^{-3}$	$4.182 \times 10^{-3}$	$2.810 \times 10^{-3}$
0.8000	0.5000	$4.538 \times 10^{-2}$	$3.843 \times 10^{-3}$	$4.595 \times 10^{-3}$	$2.676 \times 10^{-3}$
0.8333	0.5000	$4.616 \times 10^{-2}$	$4.054 \times 10^{-3}$	$4.680 \times 10^{-3}$	$2.563 \times 10^{-3}$
0.8667	0.5000	$4.618 \times 10^{-2}$	$4.352 \times 10^{-3}$	$4.613 \times 10^{-3}$	$2.390 \times 10^{-3}$
0.9000	0.5000	$4.487 \times 10^{-2}$	$4.765 \times 10^{-3}$	$4.284 \times 10^{-3}$	$2.240 \times 10^{-3}$
0.9333	0.5000	$4.272 \times 10^{-2}$	$5.420 \times 10^{-3}$	$4.275 \times 10^{-3}$	$2.143 \times 10^{-3}$
0.9667	0.5000	$3.832 \times 10^{-2}$	$8.252 \times 10^{-3}$	$5.103 \times 10^{-3}$	$2.603 \times 10^{-3}$
1.0000	0.5000	$3.519 \times 10^{-2}$	$1.109 \times 10^{-2}$	$5.867 \times 10^{-3}$	$2.959 \times 10^{-3}$
0.0000	0.5333	$5.065 \times 10^{-2}$	$5.763 \times 10^{-2}$	$2.023 \times 10^{-4}$	$2.485 \times 10^{-2}$
0.0333	0.5333	$3.765 \times 10^{-2}$	$4.050 \times 10^{-2}$	$1.577 \times 10^{-4}$	$1.674 \times 10^{-2}$
0.0667	0.5333	$4.130 \times 10^{-2}$	$3.439 \times 10^{-2}$	$6.918 \times 10^{-5}$	$1.415 \times 10^{-2}$
0.1000	0.5333	$3.714 \times 10^{-2}$	$2.619 \times 10^{-2}$	$-6.243 \times 10^{-5}$	$1.064 \times 10^{-2}$
0.1333	0.5333	$3.598 \times 10^{-2}$	$2.153 \times 10^{-2}$	$1.841 \times 10^{-6}$	$8.764 \times 10^{-3}$
0.1667	0.5333	$3.227 \times 10^{-2}$	$2.230 \times 10^{-2}$	$9.124 \times 10^{-5}$	$8.791 \times 10^{-3}$
0.2000	0.5333	$3.812 \times 10^{-2}$	$2.511 \times 10^{-2}$	$2.389 \times 10^{-4}$	$1.036 \times 10^{-2}$
0.2333	0.5333	$3.649 \times 10^{-2}$	$2.073 \times 10^{-2}$	$4.570 \times 10^{-5}$	$8.341 \times 10^{-3}$
0.2667	0.5333	$3.330 \times 10^{-2}$	$1.798 \times 10^{-2}$	$1.346 \times 10^{-4}$	$6.901 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.3000	0.5333	$3.214 \times 10^{-2}$	$1.616 \times 10^{-2}$	$2.627 \times 10^{-4}$	$6.430 \times 10^{-3}$
0.3333	0.5333	$3.198 \times 10^{-2}$	$1.534 \times 10^{-2}$	$3.523 \times 10^{-4}$	$6.110 \times 10^{-3}$
0.3667	0.5333	$3.077 \times 10^{-2}$	$1.382 \times 10^{-2}$	$4.464 \times 10^{-4}$	$5.438 \times 10^{-3}$
0.4000	0.5333	$2.945 \times 10^{-2}$	$1.270 \times 10^{-2}$	$3.595 \times 10^{-4}$	$4.832 \times 10^{-3}$
0.4333	0.5333	$2.729 \times 10^{-2}$	$1.131 \times 10^{-2}$	$3.977 \times 10^{-4}$	$4.287 \times 10^{-3}$
0.4667	0.5333	$2.692 \times 10^{-2}$	$1.055 \times 10^{-2}$	$6.914 \times 10^{-4}$	$4.051 \times 10^{-3}$
0.5000	0.5333	$2.701 \times 10^{-2}$	$1.024 \times 10^{-2}$	$7.981 \times 10^{-4}$	$3.964 \times 10^{-3}$
0.5333	0.5333	$2.621 \times 10^{-2}$	$9.629 \times 10^{-3}$	$6.083 \times 10^{-4}$	$3.683 \times 10^{-3}$
0.5667	0.5333	$2.613 \times 10^{-2}$	$8.989 \times 10^{-3}$	$8.932 \times 10^{-4}$	$3.539 \times 10^{-3}$
0.6000	0.5333	$2.583 \times 10^{-2}$	$8.222 \times 10^{-3}$	$1.066 \times 10^{-3}$	$3.335 \times 10^{-3}$
0.6333	0.5333	$2.772 \times 10^{-2}$	$7.697 \times 10^{-3}$	$1.400 \times 10^{-3}$	$3.358 \times 10^{-3}$
0.6667	0.5333	$2.900 \times 10^{-2}$	$6.940 \times 10^{-3}$	$2.130 \times 10^{-3}$	$3.354 \times 10^{-3}$
0.7000	0.5333	$3.280 \times 10^{-2}$	$6.598 \times 10^{-3}$	$2.661 \times 10^{-3}$	$3.426 \times 10^{-3}$
0.7333	0.5333	$3.494 \times 10^{-2}$	$5.844 \times 10^{-3}$	$3.367 \times 10^{-3}$	$3.327 \times 10^{-3}$
0.7667	0.5333	$3.866 \times 10^{-2}$	$4.958 \times 10^{-3}$	$3.698 \times 10^{-3}$	$2.987 \times 10^{-3}$
0.8000	0.5333	$4.058 \times 10^{-2}$	$4.334 \times 10^{-3}$	$4.057 \times 10^{-3}$	$2.763 \times 10^{-3}$
0.8333	0.5333	$4.243 \times 10^{-2}$	$4.219 \times 10^{-3}$	$4.430 \times 10^{-3}$	$2.679 \times 10^{-3}$
0.8667	0.5333	$4.267 \times 10^{-2}$	$4.578 \times 10^{-3}$	$4.459 \times 10^{-3}$	$2.596 \times 10^{-3}$
0.9000	0.5333	$4.237 \times 10^{-2}$	$5.039 \times 10^{-3}$	$4.473 \times 10^{-3}$	$2.436 \times 10^{-3}$
0.9333	0.5333	$4.018 \times 10^{-2}$	$5.558 \times 10^{-3}$	$4.460 \times 10^{-3}$	$2.445 \times 10^{-3}$
0.9667	0.5333	$3.735 \times 10^{-2}$	$8.276 \times 10^{-3}$	$4.957 \times 10^{-3}$	$2.753 \times 10^{-3}$
1.0000	0.5333	$3.328 \times 10^{-2}$	$1.047 \times 10^{-2}$	$5.057 \times 10^{-3}$	$2.928 \times 10^{-3}$
0.0000	0.5667	$5.373 \times 10^{-2}$	$6.182 \times 10^{-2}$	$-4.012 \times 10^{-4}$	$2.677 \times 10^{-2}$
0.0333	0.5667	$3.853 \times 10^{-2}$	$4.047 \times 10^{-2}$	$6.022 \times 10^{-5}$	$1.682 \times 10^{-2}$
0.0667	0.5667	$4.171 \times 10^{-2}$	$3.550 \times 10^{-2}$	$6.729 \times 10^{-5}$	$1.465 \times 10^{-2}$
0.1000	0.5667	$3.714 \times 10^{-2}$	$2.600 \times 10^{-2}$	$9.249 \times 10^{-5}$	$1.052 \times 10^{-2}$
0.1333	0.5667	$3.518 \times 10^{-2}$	$2.125 \times 10^{-2}$	$1.004 \times 10^{-4}$	$8.638 \times 10^{-3}$
0.1667	0.5667	$3.167 \times 10^{-2}$	$2.213 \times 10^{-2}$	$-2.473 \times 10^{-5}$	$8.839 \times 10^{-3}$
0.2000	0.5667	$3.798 \times 10^{-2}$	$2.486 \times 10^{-2}$	$4.437 \times 10^{-4}$	$1.010 \times 10^{-2}$
0.2333	0.5667	$3.652 \times 10^{-2}$	$2.091 \times 10^{-2}$	$3.496 \times 10^{-4}$	$8.494 \times 10^{-3}$
0.2667	0.5667	$3.230 \times 10^{-2}$	$1.750 \times 10^{-2}$	$4.590 \times 10^{-4}$	$6.859 \times 10^{-3}$
0.3000	0.5667	$3.144 \times 10^{-2}$	$1.593 \times 10^{-2}$	$2.859 \times 10^{-4}$	$6.338 \times 10^{-3}$
0.3333	0.5667	$3.160 \times 10^{-2}$	$1.532 \times 10^{-2}$	$4.638 \times 10^{-4}$	$6.033 \times 10^{-3}$
0.3667	0.5667	$3.046 \times 10^{-2}$	$1.390 \times 10^{-2}$	$7.676 \times 10^{-4}$	$5.439 \times 10^{-3}$
0.4000	0.5667	$2.849 \times 10^{-2}$	$1.262 \times 10^{-2}$	$8.693 \times 10^{-4}$	$4.798 \times 10^{-3}$
0.4333	0.5667	$2.648 \times 10^{-2}$	$1.127 \times 10^{-2}$	$7.415 \times 10^{-4}$	$4.266 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.4667	0.5667	$2.615 \times 10^{-2}$	$1.053 \times 10^{-2}$	$8.850 \times 10^{-4}$	$4.071 \times 10^{-3}$
0.5000	0.5667	$2.599 \times 10^{-2}$	$1.000 \times 10^{-2}$	$7.093 \times 10^{-4}$	$3.843 \times 10^{-3}$
0.5333	0.5667	$2.511 \times 10^{-2}$	$9.443 \times 10^{-3}$	$9.169 \times 10^{-4}$	$3.686 \times 10^{-3}$
0.5667	0.5667	$2.414 \times 10^{-2}$	$8.798 \times 10^{-3}$	$9.335 \times 10^{-4}$	$3.308 \times 10^{-3}$
0.6000	0.5667	$2.485 \times 10^{-2}$	$8.262 \times 10^{-3}$	$1.262 \times 10^{-3}$	$3.397 \times 10^{-3}$
0.6333	0.5667	$2.541 \times 10^{-2}$	$7.625 \times 10^{-3}$	$1.316 \times 10^{-3}$	$3.249 \times 10^{-3}$
0.6667	0.5667	$2.750 \times 10^{-2}$	$7.426 \times 10^{-3}$	$1.764 \times 10^{-3}$	$3.325 \times 10^{-3}$
0.7000	0.5667	$2.892 \times 10^{-2}$	$6.656 \times 10^{-3}$	$2.270 \times 10^{-3}$	$3.227 \times 10^{-3}$
0.7333	0.5667	$3.199 \times 10^{-2}$	$6.033 \times 10^{-3}$	$2.975 \times 10^{-3}$	$3.278 \times 10^{-3}$
0.7667	0.5667	$3.428 \times 10^{-2}$	$5.856 \times 10^{-3}$	$3.747 \times 10^{-3}$	$3.293 \times 10^{-3}$
0.8000	0.5667	$3.745 \times 10^{-2}$	$5.490 \times 10^{-3}$	$4.236 \times 10^{-3}$	$3.278 \times 10^{-3}$
0.8333	0.5667	$3.865 \times 10^{-2}$	$5.471 \times 10^{-3}$	$4.412 \times 10^{-3}$	$3.027 \times 10^{-3}$
0.8667	0.5667	$3.946 \times 10^{-2}$	$5.153 \times 10^{-3}$	$4.248 \times 10^{-3}$	$2.792 \times 10^{-3}$
0.9000	0.5667	$3.899 \times 10^{-2}$	$5.732 \times 10^{-3}$	$4.762 \times 10^{-3}$	$2.796 \times 10^{-3}$
0.9333	0.5667	$3.838 \times 10^{-2}$	$6.803 \times 10^{-3}$	$4.867 \times 10^{-3}$	$2.910 \times 10^{-3}$
0.9667	0.5667	$3.473 \times 10^{-2}$	$8.183 \times 10^{-3}$	$4.858 \times 10^{-3}$	$2.872 \times 10^{-3}$
1.0000	0.5667	$3.096 \times 10^{-2}$	$1.022 \times 10^{-2}$	$4.509 \times 10^{-3}$	$2.832 \times 10^{-3}$
0.0000	0.6000	$4.999 \times 10^{-2}$	$5.638 \times 10^{-2}$	$2.608 \times 10^{-4}$	$2.436 \times 10^{-2}$
0.0333	0.6000	$4.107 \times 10^{-2}$	$4.243 \times 10^{-2}$	$-2.106 \times 10^{-8}$	$1.765 \times 10^{-2}$
0.0667	0.6000	$4.085 \times 10^{-2}$	$3.189 \times 10^{-2}$	$1.016 \times 10^{-4}$	$1.293 \times 10^{-2}$
0.1000	0.6000	$3.599 \times 10^{-2}$	$2.528 \times 10^{-2}$	$2.833 \times 10^{-4}$	$1.025 \times 10^{-2}$
0.1333	0.6000	$3.491 \times 10^{-2}$	$2.112 \times 10^{-2}$	$3.463 \times 10^{-4}$	$8.564 \times 10^{-3}$
0.1667	0.6000	$3.007 \times 10^{-2}$	$2.150 \times 10^{-2}$	$2.514 \times 10^{-4}$	$8.569 \times 10^{-3}$
0.2000	0.6000	$3.694 \times 10^{-2}$	$2.449 \times 10^{-2}$	$4.426 \times 10^{-4}$	$1.015 \times 10^{-2}$
0.2333	0.6000	$3.647 \times 10^{-2}$	$2.168 \times 10^{-2}$	$6.755 \times 10^{-4}$	$8.678 \times 10^{-3}$
0.2667	0.6000	$3.129 \times 10^{-2}$	$1.717 \times 10^{-2}$	$8.129 \times 10^{-4}$	$6.687 \times 10^{-3}$
0.3000	0.6000	$3.027 \times 10^{-2}$	$1.574 \times 10^{-2}$	$6.924 \times 10^{-4}$	$6.144 \times 10^{-3}$
0.3333	0.6000	$2.916 \times 10^{-2}$	$1.464 \times 10^{-2}$	$1.037 \times 10^{-3}$	$5.776 \times 10^{-3}$
0.3667	0.6000	$2.921 \times 10^{-2}$	$1.383 \times 10^{-2}$	$1.021 \times 10^{-3}$	$5.391 \times 10^{-3}$
0.4000	0.6000	$2.677 \times 10^{-2}$	$1.190 \times 10^{-2}$	$1.066 \times 10^{-3}$	$4.483 \times 10^{-3}$
0.4333	0.6000	$2.574 \times 10^{-2}$	$1.115 \times 10^{-2}$	$9.693 \times 10^{-4}$	$4.187 \times 10^{-3}$
0.4667	0.6000	$2.512 \times 10^{-2}$	$1.019 \times 10^{-2}$	$8.881 \times 10^{-4}$	$3.964 \times 10^{-3}$
0.5000	0.6000	$2.506 \times 10^{-2}$	$9.893 \times 10^{-3}$	$9.885 \times 10^{-4}$	$3.860 \times 10^{-3}$
0.5333	0.6000	$2.405 \times 10^{-2}$	$9.189 \times 10^{-3}$	$9.963 \times 10^{-4}$	$3.549 \times 10^{-3}$
0.5667	0.6000	$2.367 \times 10^{-2}$	$8.790 \times 10^{-3}$	$1.056 \times 10^{-3}$	$3.357 \times 10^{-3}$
0.6000	0.6000	$2.325 \times 10^{-2}$	$8.121 \times 10^{-3}$	$1.116 \times 10^{-3}$	$3.159 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.6000	$2.405 \times 10^{-2}$	$7.628 \times 10^{-3}$	$1.291 \times 10^{-3}$	$3.123 \times 10^{-3}$
0.6667	0.6000	$2.515 \times 10^{-2}$	$7.344 \times 10^{-3}$	$1.556 \times 10^{-3}$	$3.154 \times 10^{-3}$
0.7000	0.6000	$2.613 \times 10^{-2}$	$6.517 \times 10^{-3}$	$1.874 \times 10^{-3}$	$3.004 \times 10^{-3}$
0.7333	0.6000	$2.875 \times 10^{-2}$	$6.225 \times 10^{-3}$	$2.497 \times 10^{-3}$	$3.110 \times 10^{-3}$
0.7667	0.6000	$3.093 \times 10^{-2}$	$5.728 \times 10^{-3}$	$3.289 \times 10^{-3}$	$3.060 \times 10^{-3}$
0.8000	0.6000	$3.277 \times 10^{-2}$	$5.518 \times 10^{-3}$	$3.645 \times 10^{-3}$	$3.121 \times 10^{-3}$
0.8333	0.6000	$3.498 \times 10^{-2}$	$5.513 \times 10^{-3}$	$4.247 \times 10^{-3}$	$3.138 \times 10^{-3}$
0.8667	0.6000	$3.587 \times 10^{-2}$	$5.748 \times 10^{-3}$	$4.650 \times 10^{-3}$	$3.020 \times 10^{-3}$
0.9000	0.6000	$3.668 \times 10^{-2}$	$6.111 \times 10^{-3}$	$4.760 \times 10^{-3}$	$2.967 \times 10^{-3}$
0.9333	0.6000	$3.480 \times 10^{-2}$	$6.561 \times 10^{-3}$	$4.535 \times 10^{-3}$	$2.882 \times 10^{-3}$
0.9667	0.6000	$3.176 \times 10^{-2}$	$7.654 \times 10^{-3}$	$4.221 \times 10^{-3}$	$2.657 \times 10^{-3}$
1.0000	0.6000	$2.947 \times 10^{-2}$	$9.304 \times 10^{-3}$	$4.008 \times 10^{-3}$	$2.687 \times 10^{-3}$
0.0000	0.6333	$5.390 \times 10^{-2}$	$6.134 \times 10^{-2}$	$-4.488 \times 10^{-4}$	$2.658 \times 10^{-2}$
0.0333	0.6333	$4.228 \times 10^{-2}$	$4.177 \times 10^{-2}$	$6.436 \times 10^{-5}$	$1.724 \times 10^{-2}$
0.0667	0.6333	$4.015 \times 10^{-2}$	$3.123 \times 10^{-2}$	$1.156 \times 10^{-4}$	$1.266 \times 10^{-2}$
0.1000	0.6333	$3.564 \times 10^{-2}$	$2.480 \times 10^{-2}$	$2.293 \times 10^{-5}$	$1.003 \times 10^{-2}$
0.1333	0.6333	$3.421 \times 10^{-2}$	$2.104 \times 10^{-2}$	$2.886 \times 10^{-4}$	$8.525 \times 10^{-3}$
0.1667	0.6333	$2.982 \times 10^{-2}$	$2.137 \times 10^{-2}$	$5.920 \times 10^{-4}$	$8.501 \times 10^{-3}$
0.2000	0.6333	$3.495 \times 10^{-2}$	$2.396 \times 10^{-2}$	$1.348 \times 10^{-3}$	$9.794 \times 10^{-3}$
0.2333	0.6333	$3.302 \times 10^{-2}$	$1.991 \times 10^{-2}$	$1.388 \times 10^{-3}$	$7.988 \times 10^{-3}$
0.2667	0.6333	$2.944 \times 10^{-2}$	$1.706 \times 10^{-2}$	$1.230 \times 10^{-3}$	$6.476 \times 10^{-3}$
0.3000	0.6333	$2.790 \times 10^{-2}$	$1.502 \times 10^{-2}$	$1.731 \times 10^{-3}$	$5.921 \times 10^{-3}$
0.3333	0.6333	$2.761 \times 10^{-2}$	$1.415 \times 10^{-2}$	$1.395 \times 10^{-3}$	$5.454 \times 10^{-3}$
0.3667	0.6333	$2.685 \times 10^{-2}$	$1.273 \times 10^{-2}$	$1.424 \times 10^{-3}$	$5.018 \times 10^{-3}$
0.4000	0.6333	$2.527 \times 10^{-2}$	$1.149 \times 10^{-2}$	$1.249 \times 10^{-3}$	$4.369 \times 10^{-3}$
0.4333	0.6333	$2.466 \times 10^{-2}$	$1.080 \times 10^{-2}$	$1.008 \times 10^{-3}$	$4.210 \times 10^{-3}$
0.4667	0.6333	$2.391 \times 10^{-2}$	$1.011 \times 10^{-2}$	$1.241 \times 10^{-3}$	$3.972 \times 10^{-3}$
0.5000	0.6333	$2.383 \times 10^{-2}$	$9.742 \times 10^{-3}$	$1.157 \times 10^{-3}$	$3.728 \times 10^{-3}$
0.5333	0.6333	$2.245 \times 10^{-2}$	$8.863 \times 10^{-3}$	$8.734 \times 10^{-4}$	$3.470 \times 10^{-3}$
0.5667	0.6333	$2.255 \times 10^{-2}$	$8.668 \times 10^{-3}$	$1.190 \times 10^{-3}$	$3.346 \times 10^{-3}$
0.6000	0.6333	$2.212 \times 10^{-2}$	$8.243 \times 10^{-3}$	$9.083 \times 10^{-4}$	$3.136 \times 10^{-3}$
0.6333	0.6333	$2.251 \times 10^{-2}$	$7.694 \times 10^{-3}$	$1.176 \times 10^{-3}$	$3.156 \times 10^{-3}$
0.6667	0.6333	$2.328 \times 10^{-2}$	$7.333 \times 10^{-3}$	$1.351 \times 10^{-3}$	$3.124 \times 10^{-3}$
0.7000	0.6333	$2.443 \times 10^{-2}$	$7.066 \times 10^{-3}$	$1.684 \times 10^{-3}$	$3.024 \times 10^{-3}$
0.7333	0.6333	$2.601 \times 10^{-2}$	$6.602 \times 10^{-3}$	$1.896 \times 10^{-3}$	$3.076 \times 10^{-3}$
0.7667	0.6333	$2.778 \times 10^{-2}$	$6.001 \times 10^{-3}$	$2.445 \times 10^{-3}$	$3.031 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8000	0.6333	$2.967 \times 10^{-2}$	$5.484 \times 10^{-3}$	$2.959 \times 10^{-3}$	$2.967 \times 10^{-3}$
0.8333	0.6333	$3.151 \times 10^{-2}$	$5.582 \times 10^{-3}$	$3.532 \times 10^{-3}$	$3.020 \times 10^{-3}$
0.8667	0.6333	$3.262 \times 10^{-2}$	$5.660 \times 10^{-3}$	$3.730 \times 10^{-3}$	$2.854 \times 10^{-3}$
0.9000	0.6333	$3.320 \times 10^{-2}$	$5.700 \times 10^{-3}$	$3.970 \times 10^{-3}$	$2.936 \times 10^{-3}$
0.9333	0.6333	$3.285 \times 10^{-2}$	$6.294 \times 10^{-3}$	$4.344 \times 10^{-3}$	$2.801 \times 10^{-3}$
0.9667	0.6333	$3.008 \times 10^{-2}$	$7.322 \times 10^{-3}$	$3.864 \times 10^{-3}$	$2.612 \times 10^{-3}$
1.0000	0.6333	$2.680 \times 10^{-2}$	$8.578 \times 10^{-3}$	$3.804 \times 10^{-3}$	$2.563 \times 10^{-3}$
0.0000	0.6667	$4.855 \times 10^{-2}$	$5.542 \times 10^{-2}$	$-1.788 \times 10^{-4}$	$2.387 \times 10^{-2}$
0.0333	0.6667	$3.625 \times 10^{-2}$	$3.982 \times 10^{-2}$	$1.109 \times 10^{-4}$	$1.645 \times 10^{-2}$
0.0667	0.6667	$4.023 \times 10^{-2}$	$3.519 \times 10^{-2}$	$7.487 \times 10^{-4}$	$1.451 \times 10^{-2}$
0.1000	0.6667	$3.421 \times 10^{-2}$	$2.570 \times 10^{-2}$	$1.002 \times 10^{-3}$	$1.032 \times 10^{-2}$
0.1333	0.6667	$2.971 \times 10^{-2}$	$2.081 \times 10^{-2}$	$1.489 \times 10^{-3}$	$8.216 \times 10^{-3}$
0.1667	0.6667	$2.808 \times 10^{-2}$	$2.255 \times 10^{-2}$	$1.451 \times 10^{-3}$	$9.038 \times 10^{-3}$
0.2000	0.6667	$3.034 \times 10^{-2}$	$2.242 \times 10^{-2}$	$1.829 \times 10^{-3}$	$8.964 \times 10^{-3}$
0.2333	0.6667	$2.965 \times 10^{-2}$	$1.907 \times 10^{-2}$	$2.046 \times 10^{-3}$	$7.429 \times 10^{-3}$
0.2667	0.6667	$2.638 \times 10^{-2}$	$1.621 \times 10^{-2}$	$1.769 \times 10^{-3}$	$6.248 \times 10^{-3}$
0.3000	0.6667	$2.503 \times 10^{-2}$	$1.434 \times 10^{-2}$	$1.657 \times 10^{-3}$	$5.662 \times 10^{-3}$
0.3333	0.6667	$2.494 \times 10^{-2}$	$1.393 \times 10^{-2}$	$1.569 \times 10^{-3}$	$5.475 \times 10^{-3}$
0.3667	0.6667	$2.457 \times 10^{-2}$	$1.295 \times 10^{-2}$	$1.640 \times 10^{-3}$	$5.085 \times 10^{-3}$
0.4000	0.6667	$2.388 \times 10^{-2}$	$1.204 \times 10^{-2}$	$1.447 \times 10^{-3}$	$4.706 \times 10^{-3}$
0.4333	0.6667	$2.297 \times 10^{-2}$	$1.095 \times 10^{-2}$	$1.253 \times 10^{-3}$	$4.290 \times 10^{-3}$
0.4667	0.6667	$2.300 \times 10^{-2}$	$1.017 \times 10^{-2}$	$1.187 \times 10^{-3}$	$3.968 \times 10^{-3}$
0.5000	0.6667	$2.204 \times 10^{-2}$	$9.792 \times 10^{-3}$	$1.186 \times 10^{-3}$	$3.882 \times 10^{-3}$
0.5333	0.6667	$2.205 \times 10^{-2}$	$9.541 \times 10^{-3}$	$9.681 \times 10^{-4}$	$3.717 \times 10^{-3}$
0.5667	0.6667	$2.169 \times 10^{-2}$	$9.435 \times 10^{-3}$	$8.073 \times 10^{-4}$	$3.652 \times 10^{-3}$
0.6000	0.6667	$2.132 \times 10^{-2}$	$8.791 \times 10^{-3}$	$9.784 \times 10^{-4}$	$3.427 \times 10^{-3}$
0.6333	0.6667	$2.120 \times 10^{-2}$	$8.102 \times 10^{-3}$	$9.349 \times 10^{-4}$	$3.176 \times 10^{-3}$
0.6667	0.6667	$2.186 \times 10^{-2}$	$7.970 \times 10^{-3}$	$1.188 \times 10^{-3}$	$3.256 \times 10^{-3}$
0.7000	0.6667	$2.268 \times 10^{-2}$	$7.638 \times 10^{-3}$	$1.425 \times 10^{-3}$	$3.213 \times 10^{-3}$
0.7333	0.6667	$2.375 \times 10^{-2}$	$7.300 \times 10^{-3}$	$1.717 \times 10^{-3}$	$3.196 \times 10^{-3}$
0.7667	0.6667	$2.506 \times 10^{-2}$	$6.475 \times 10^{-3}$	$2.090 \times 10^{-3}$	$3.006 \times 10^{-3}$
0.8000	0.6667	$2.697 \times 10^{-2}$	$6.657 \times 10^{-3}$	$2.531 \times 10^{-3}$	$3.124 \times 10^{-3}$
0.8333	0.6667	$2.837 \times 10^{-2}$	$6.234 \times 10^{-3}$	$2.863 \times 10^{-3}$	$3.125 \times 10^{-3}$
0.8667	0.6667	$2.959 \times 10^{-2}$	$6.121 \times 10^{-3}$	$3.139 \times 10^{-3}$	$2.961 \times 10^{-3}$
0.9000	0.6667	$3.024 \times 10^{-2}$	$6.051 \times 10^{-3}$	$3.553 \times 10^{-3}$	$2.933 \times 10^{-3}$
0.9333	0.6667	$3.002 \times 10^{-2}$	$6.329 \times 10^{-3}$	$3.651 \times 10^{-3}$	$2.724 \times 10^{-3}$

Table A.3: Surface variables on upper plate, coarse grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9667	0.6667	$2.805 \times 10^{-2}$	$7.243 \times 10^{-3}$	$3.356 \times 10^{-3}$	$2.569 \times 10^{-3}$
1.0000	0.6667	$2.525 \times 10^{-2}$	$8.504 \times 10^{-3}$	$3.203 \times 10^{-3}$	$2.589 \times 10^{-3}$
0.0000	0.7000	$5.912 \times 10^{-2}$	$6.385 \times 10^{-2}$	$3.488 \times 10^{-3}$	$2.831 \times 10^{-2}$
0.0333	0.7000	$2.897 \times 10^{-2}$	$3.546 \times 10^{-2}$	$2.111 \times 10^{-3}$	$1.457 \times 10^{-2}$
0.0667	0.7000	$3.056 \times 10^{-2}$	$3.248 \times 10^{-2}$	$2.954 \times 10^{-3}$	$1.330 \times 10^{-2}$
0.1000	0.7000	$2.818 \times 10^{-2}$	$2.645 \times 10^{-2}$	$2.901 \times 10^{-3}$	$1.053 \times 10^{-2}$
0.1333	0.7000	$2.524 \times 10^{-2}$	$2.255 \times 10^{-2}$	$2.101 \times 10^{-3}$	$8.913 \times 10^{-3}$
0.1667	0.7000	$2.540 \times 10^{-2}$	$2.249 \times 10^{-2}$	$2.330 \times 10^{-3}$	$9.045 \times 10^{-3}$
0.2000	0.7000	$2.475 \times 10^{-2}$	$2.120 \times 10^{-2}$	$3.023 \times 10^{-3}$	$8.334 \times 10^{-3}$
0.2333	0.7000	$2.526 \times 10^{-2}$	$2.038 \times 10^{-2}$	$2.456 \times 10^{-3}$	$8.116 \times 10^{-3}$
0.2667	0.7000	$2.396 \times 10^{-2}$	$1.826 \times 10^{-2}$	$2.308 \times 10^{-3}$	$7.279 \times 10^{-3}$
0.3000	0.7000	$2.265 \times 10^{-2}$	$1.627 \times 10^{-2}$	$1.579 \times 10^{-3}$	$6.354 \times 10^{-3}$
0.3333	0.7000	$2.302 \times 10^{-2}$	$1.615 \times 10^{-2}$	$2.009 \times 10^{-3}$	$6.353 \times 10^{-3}$
0.3667	0.7000	$2.267 \times 10^{-2}$	$1.517 \times 10^{-2}$	$1.644 \times 10^{-3}$	$5.950 \times 10^{-3}$
0.4000	0.7000	$2.218 \times 10^{-2}$	$1.411 \times 10^{-2}$	$1.370 \times 10^{-3}$	$5.609 \times 10^{-3}$
0.4333	0.7000	$2.193 \times 10^{-2}$	$1.385 \times 10^{-2}$	$1.390 \times 10^{-3}$	$5.383 \times 10^{-3}$
0.4667	0.7000	$2.112 \times 10^{-2}$	$1.294 \times 10^{-2}$	$1.352 \times 10^{-3}$	$5.186 \times 10^{-3}$
0.5000	0.7000	$2.085 \times 10^{-2}$	$1.233 \times 10^{-2}$	$1.079 \times 10^{-3}$	$4.856 \times 10^{-3}$
0.5333	0.7000	$2.041 \times 10^{-2}$	$1.173 \times 10^{-2}$	$1.100 \times 10^{-3}$	$4.567 \times 10^{-3}$
0.5667	0.7000	$2.056 \times 10^{-2}$	$1.145 \times 10^{-2}$	$9.429 \times 10^{-4}$	$4.469 \times 10^{-3}$
0.6000	0.7000	$1.976 \times 10^{-2}$	$1.056 \times 10^{-2}$	$1.156 \times 10^{-3}$	$4.189 \times 10^{-3}$
0.6333	0.7000	$1.972 \times 10^{-2}$	$1.035 \times 10^{-2}$	$1.091 \times 10^{-3}$	$3.980 \times 10^{-3}$
0.6667	0.7000	$2.019 \times 10^{-2}$	$1.022 \times 10^{-2}$	$1.255 \times 10^{-3}$	$4.088 \times 10^{-3}$
0.7000	0.7000	$2.062 \times 10^{-2}$	$1.001 \times 10^{-2}$	$1.051 \times 10^{-3}$	$3.987 \times 10^{-3}$
0.7333	0.7000	$2.183 \times 10^{-2}$	$9.908 \times 10^{-3}$	$1.578 \times 10^{-3}$	$4.183 \times 10^{-3}$
0.7667	0.7000	$2.252 \times 10^{-2}$	$9.324 \times 10^{-3}$	$1.651 \times 10^{-3}$	$3.956 \times 10^{-3}$
0.8000	0.7000	$2.390 \times 10^{-2}$	$9.169 \times 10^{-3}$	$1.929 \times 10^{-3}$	$3.997 \times 10^{-3}$
0.8333	0.7000	$2.656 \times 10^{-2}$	$8.990 \times 10^{-3}$	$2.720 \times 10^{-3}$	$3.883 \times 10^{-3}$
0.8667	0.7000	$2.741 \times 10^{-2}$	$9.009 \times 10^{-3}$	$3.046 \times 10^{-3}$	$4.008 \times 10^{-3}$
0.9000	0.7000	$2.827 \times 10^{-2}$	$8.533 \times 10^{-3}$	$3.143 \times 10^{-3}$	$3.817 \times 10^{-3}$
0.9333	0.7000	$2.809 \times 10^{-2}$	$8.535 \times 10^{-3}$	$3.317 \times 10^{-3}$	$3.721 \times 10^{-3}$
0.9667	0.7000	$2.721 \times 10^{-2}$	$8.755 \times 10^{-3}$	$2.898 \times 10^{-3}$	$3.475 \times 10^{-3}$
1.0000	0.7000	$2.476 \times 10^{-2}$	$9.945 \times 10^{-3}$	$2.305 \times 10^{-3}$	$3.231 \times 10^{-3}$

### A.2.2 Fine Grid Resolution

For the final dataset, the surface properties of the fine grid region near the jet interaction are tabulated and presented in Table A.4. Labeled in Figure A.2 is the region of the fine grid, which bounds the area  $0.4667 \leq x/L \leq 1.0$  and  $0 \leq y/L \leq 0.2667$ . Cell spacing in this region is 0.001 m and provides a  $80 \times 40$  grid with  $1 \times 10^{-6} m^2$  cell resolution.

Table A.4: Surface variables on upper plate, fine grid.

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}'/\rho_\infty V_\infty^3$
0.4667	0.0000	$3.466 \times 10^{-2}$	$9.767 \times 10^{-3}$	$-1.098 \times 10^{-4}$	$4.513 \times 10^{-3}$
0.4733	0.0000	$3.491 \times 10^{-2}$	$9.679 \times 10^{-3}$	$-9.934 \times 10^{-5}$	$4.518 \times 10^{-3}$
0.4800	0.0000	$3.880 \times 10^{-2}$	$8.347 \times 10^{-3}$	$6.050 \times 10^{-5}$	$4.596 \times 10^{-3}$
0.4867	0.0000	$3.909 \times 10^{-2}$	$8.189 \times 10^{-3}$	$5.454 \times 10^{-5}$	$4.568 \times 10^{-3}$
0.4933	0.0000	$4.363 \times 10^{-2}$	$5.602 \times 10^{-3}$	$-6.896 \times 10^{-5}$	$4.063 \times 10^{-3}$
0.5000	0.0000	$4.394 \times 10^{-2}$	$5.473 \times 10^{-3}$	$-7.175 \times 10^{-5}$	$4.055 \times 10^{-3}$
0.5067	0.0000	$4.915 \times 10^{-2}$	$3.449 \times 10^{-3}$	$-1.144 \times 10^{-4}$	$3.980 \times 10^{-3}$
0.5133	0.0000	$4.953 \times 10^{-2}$	$3.360 \times 10^{-3}$	$-1.084 \times 10^{-4}$	$3.984 \times 10^{-3}$
0.5200	0.0000	$5.620 \times 10^{-2}$	$1.930 \times 10^{-3}$	$1.534 \times 10^{-5}$	$4.070 \times 10^{-3}$
0.5267	0.0000	$5.655 \times 10^{-2}$	$1.865 \times 10^{-3}$	$1.751 \times 10^{-5}$	$4.058 \times 10^{-3}$
0.5333	0.0000	$6.282 \times 10^{-2}$	$7.414 \times 10^{-4}$	$1.699 \times 10^{-5}$	$3.738 \times 10^{-3}$
0.5400	0.0000	$6.309 \times 10^{-2}$	$6.810 \times 10^{-4}$	$2.348 \times 10^{-5}$	$3.718 \times 10^{-3}$
0.5467	0.0000	$6.800 \times 10^{-2}$	$-4.760 \times 10^{-4}$	$1.720 \times 10^{-4}$	$3.318 \times 10^{-3}$
0.5533	0.0000	$6.824 \times 10^{-2}$	$-5.306 \times 10^{-4}$	$1.740 \times 10^{-4}$	$3.306 \times 10^{-3}$
0.5600	0.0000	$7.302 \times 10^{-2}$	$-1.588 \times 10^{-3}$	$1.585 \times 10^{-4}$	$3.132 \times 10^{-3}$
0.5667	0.0000	$7.324 \times 10^{-2}$	$-1.620 \times 10^{-3}$	$1.626 \times 10^{-4}$	$3.120 \times 10^{-3}$
0.5733	0.0000	$7.760 \times 10^{-2}$	$-2.094 \times 10^{-3}$	$3.021 \times 10^{-4}$	$2.826 \times 10^{-3}$
0.5800	0.0000	$7.779 \times 10^{-2}$	$-2.118 \times 10^{-3}$	$3.038 \times 10^{-4}$	$2.813 \times 10^{-3}$
0.5867	0.0000	$8.179 \times 10^{-2}$	$-2.669 \times 10^{-3}$	$2.663 \times 10^{-4}$	$2.542 \times 10^{-3}$
0.5933	0.0000	$8.193 \times 10^{-2}$	$-2.685 \times 10^{-3}$	$2.651 \times 10^{-4}$	$2.535 \times 10^{-3}$
0.6000	0.0000	$8.452 \times 10^{-2}$	$-2.870 \times 10^{-3}$	$2.442 \times 10^{-4}$	$2.454 \times 10^{-3}$
0.6067	0.0000	$8.462 \times 10^{-2}$	$-2.906 \times 10^{-3}$	$2.476 \times 10^{-4}$	$2.457 \times 10^{-3}$
0.6133	0.0000	$8.594 \times 10^{-2}$	$-3.768 \times 10^{-3}$	$3.339 \times 10^{-4}$	$2.578 \times 10^{-3}$
0.6200	0.0000	$8.616 \times 10^{-2}$	$-3.906 \times 10^{-3}$	$3.251 \times 10^{-4}$	$2.618 \times 10^{-3}$
0.6267	0.0000	$8.754 \times 10^{-2}$	$-4.816 \times 10^{-3}$	$2.317 \times 10^{-4}$	$2.889 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.0000	$8.904 \times 10^{-2}$	$-6.240 \times 10^{-3}$	$3.236 \times 10^{-4}$	$3.340 \times 10^{-3}$
0.6400	0.0000	$8.975 \times 10^{-2}$	$-6.918 \times 10^{-3}$	$3.525 \times 10^{-4}$	$3.555 \times 10^{-3}$
0.6467	0.0000	$9.185 \times 10^{-2}$	$-8.715 \times 10^{-3}$	$5.397 \times 10^{-4}$	$4.128 \times 10^{-3}$
0.6533	0.0000	$9.403 \times 10^{-2}$	$-1.012 \times 10^{-2}$	$3.291 \times 10^{-4}$	$4.473 \times 10^{-3}$
0.6600	0.0000	$9.538 \times 10^{-2}$	$-1.089 \times 10^{-2}$	$2.508 \times 10^{-4}$	$4.686 \times 10^{-3}$
0.6667	0.0000	$1.007 \times 10^{-1}$	$-1.323 \times 10^{-2}$	$5.044 \times 10^{-4}$	$5.558 \times 10^{-3}$
0.6733	0.0000	$1.110 \times 10^{-1}$	$-1.560 \times 10^{-2}$	$4.939 \times 10^{-4}$	$6.756 \times 10^{-3}$
0.6800	0.0000	$1.229 \times 10^{-1}$	$-1.700 \times 10^{-2}$	$7.660 \times 10^{-4}$	$7.684 \times 10^{-3}$
0.6867	0.0000	$1.355 \times 10^{-1}$	$-1.682 \times 10^{-2}$	$8.608 \times 10^{-4}$	$8.656 \times 10^{-3}$
0.6933	0.0000	$1.502 \times 10^{-1}$	$-1.529 \times 10^{-2}$	$8.011 \times 10^{-4}$	$9.518 \times 10^{-3}$
0.7000	0.0000	$1.638 \times 10^{-1}$	$-1.220 \times 10^{-2}$	$3.948 \times 10^{-4}$	$1.051 \times 10^{-2}$
0.7067	0.0000	$1.748 \times 10^{-1}$	$-7.523 \times 10^{-3}$	$-1.684 \times 10^{-4}$	$1.108 \times 10^{-2}$
0.7133	0.0000	$1.822 \times 10^{-1}$	$4.269 \times 10^{-4}$	$-2.309 \times 10^{-4}$	$1.096 \times 10^{-2}$
0.7200	0.0000	$1.786 \times 10^{-1}$	$7.606 \times 10^{-3}$	$-7.503 \times 10^{-5}$	$1.026 \times 10^{-2}$
0.7267	0.0000	$1.722 \times 10^{-1}$	$1.219 \times 10^{-2}$	$-2.269 \times 10^{-4}$	$9.375 \times 10^{-3}$
0.7333	0.0000	$1.603 \times 10^{-1}$	$1.631 \times 10^{-2}$	$-2.994 \times 10^{-4}$	$7.915 \times 10^{-3}$
0.7400	0.0000	$1.467 \times 10^{-1}$	$1.860 \times 10^{-2}$	$-4.405 \times 10^{-4}$	$6.746 \times 10^{-3}$
0.7467	0.0000	$1.249 \times 10^{-1}$	$1.766 \times 10^{-2}$	$-1.515 \times 10^{-4}$	$4.811 \times 10^{-3}$
0.7533	0.0000	$1.165 \times 10^{-1}$	$1.609 \times 10^{-2}$	$3.619 \times 10^{-5}$	$4.015 \times 10^{-3}$
0.7600	0.0000	$1.080 \times 10^{-1}$	$1.400 \times 10^{-2}$	$1.219 \times 10^{-4}$	$3.358 \times 10^{-3}$
0.7667	0.0000	$1.036 \times 10^{-1}$	$1.212 \times 10^{-2}$	$1.368 \times 10^{-4}$	$2.998 \times 10^{-3}$
0.7733	0.0000	$1.002 \times 10^{-1}$	$1.032 \times 10^{-2}$	$-1.102 \times 10^{-5}$	$2.475 \times 10^{-3}$
0.7800	0.0000	$9.689 \times 10^{-2}$	$1.008 \times 10^{-2}$	$-5.535 \times 10^{-4}$	$1.941 \times 10^{-3}$
0.7867	0.0000	$9.016 \times 10^{-2}$	$1.012 \times 10^{-2}$	$1.107 \times 10^{-4}$	$1.875 \times 10^{-3}$
0.7933	0.0000	$7.596 \times 10^{-2}$	$1.108 \times 10^{-2}$	$5.492 \times 10^{-4}$	$6.767 \times 10^{-4}$
0.8000	0.0000	$5.391 \times 10^{-2}$	$7.346 \times 10^{-3}$	$1.954 \times 10^{-4}$	$3.283 \times 10^{-4}$
0.8067	0.0000	$2.290 \times 10^{-2}$	$4.302 \times 10^{-3}$	$1.012 \times 10^{-4}$	$-1.741 \times 10^{-4}$
0.8133	0.0000	$5.467 \times 10^{-3}$	$8.023 \times 10^{-4}$	$1.138 \times 10^{-4}$	$-1.166 \times 10^{-4}$
0.8200	0.0000	$2.869 \times 10^{-3}$	$-1.789 \times 10^{-3}$	$4.576 \times 10^{-4}$	$-3.748 \times 10^{-4}$
0.8267	0.0000	$3.879 \times 10^{-3}$	$-1.597 \times 10^{-3}$	$8.303 \times 10^{-4}$	$-3.626 \times 10^{-4}$
0.8333	0.0000	$3.995 \times 10^{-3}$	$3.824 \times 10^{-4}$	$1.029 \times 10^{-3}$	$-3.428 \times 10^{-4}$
0.8400	0.0000	$3.074 \times 10^{-3}$	$1.720 \times 10^{-3}$	$6.523 \times 10^{-4}$	$-2.818 \times 10^{-4}$
0.8467	0.0000	$3.088 \times 10^{-3}$	$1.534 \times 10^{-3}$	$2.473 \times 10^{-4}$	$-3.012 \times 10^{-4}$
0.8533	0.0000	$1.738 \times 10^{-3}$	$1.481 \times 10^{-3}$	$1.673 \times 10^{-4}$	$-4.170 \times 10^{-5}$
0.8600	0.0000	$6.464 \times 10^{-4}$	$3.366 \times 10^{-4}$	$6.542 \times 10^{-6}$	$-6.723 \times 10^{-6}$
0.8667	0.0000	$1.226 \times 10^{-3}$	$5.255 \times 10^{-4}$	$-1.370 \times 10^{-5}$	$-1.147 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.0000	$1.242 \times 10^{-3}$	$3.213 \times 10^{-4}$	$-2.168 \times 10^{-5}$	$-4.361 \times 10^{-5}$
0.8800	0.0000	$2.123 \times 10^{-3}$	$4.269 \times 10^{-4}$	$1.349 \times 10^{-4}$	$-4.713 \times 10^{-5}$
0.8867	0.0000	$2.849 \times 10^{-3}$	$3.898 \times 10^{-4}$	$-2.315 \times 10^{-5}$	$-3.206 \times 10^{-5}$
0.8933	0.0000	$3.317 \times 10^{-3}$	$5.131 \times 10^{-4}$	$-7.004 \times 10^{-5}$	$-2.436 \times 10^{-5}$
0.9000	0.0000	$4.312 \times 10^{-3}$	$5.480 \times 10^{-4}$	$1.672 \times 10^{-5}$	$-5.757 \times 10^{-5}$
0.9067	0.0000	$4.653 \times 10^{-3}$	$7.003 \times 10^{-4}$	$-2.097 \times 10^{-4}$	$-5.561 \times 10^{-5}$
0.9133	0.0000	$5.476 \times 10^{-3}$	$7.861 \times 10^{-4}$	$-1.290 \times 10^{-4}$	$-5.892 \times 10^{-5}$
0.9200	0.0000	$5.433 \times 10^{-3}$	$9.108 \times 10^{-4}$	$-1.358 \times 10^{-4}$	$-4.661 \times 10^{-5}$
0.9267	0.0000	$5.996 \times 10^{-3}$	$1.060 \times 10^{-3}$	$6.436 \times 10^{-5}$	$-6.285 \times 10^{-6}$
0.9333	0.0000	$6.371 \times 10^{-3}$	$1.080 \times 10^{-3}$	$2.286 \times 10^{-4}$	$-1.246 \times 10^{-5}$
0.9400	0.0000	$6.680 \times 10^{-3}$	$1.033 \times 10^{-3}$	$5.005 \times 10^{-5}$	$1.788 \times 10^{-5}$
0.9467	0.0000	$6.503 \times 10^{-3}$	$9.199 \times 10^{-4}$	$-1.944 \times 10^{-4}$	$2.555 \times 10^{-6}$
0.9533	0.0000	$7.134 \times 10^{-3}$	$1.122 \times 10^{-3}$	$-2.490 \times 10^{-4}$	$2.040 \times 10^{-6}$
0.9600	0.0000	$7.189 \times 10^{-3}$	$1.168 \times 10^{-3}$	$-1.613 \times 10^{-4}$	$-1.141 \times 10^{-5}$
0.9667	0.0000	$7.395 \times 10^{-3}$	$1.312 \times 10^{-3}$	$-2.589 \times 10^{-4}$	$-1.194 \times 10^{-5}$
0.9733	0.0000	$7.360 \times 10^{-3}$	$1.467 \times 10^{-3}$	$-2.487 \times 10^{-4}$	$1.514 \times 10^{-5}$
0.9800	0.0000	$7.214 \times 10^{-3}$	$1.461 \times 10^{-3}$	$-1.381 \times 10^{-4}$	$4.956 \times 10^{-5}$
0.9867	0.0000	$7.146 \times 10^{-3}$	$1.331 \times 10^{-3}$	$-2.654 \times 10^{-5}$	$6.632 \times 10^{-5}$
0.9933	0.0000	$7.552 \times 10^{-3}$	$1.560 \times 10^{-3}$	$-2.022 \times 10^{-5}$	$4.837 \times 10^{-5}$
1.0000	0.0000	$7.841 \times 10^{-3}$	$1.739 \times 10^{-3}$	$1.710 \times 10^{-4}$	$1.763 \times 10^{-5}$
0.4667	0.0067	$3.472 \times 10^{-2}$	$9.758 \times 10^{-3}$	$-1.056 \times 10^{-4}$	$4.527 \times 10^{-3}$
0.4733	0.0067	$3.534 \times 10^{-2}$	$9.531 \times 10^{-3}$	$-7.910 \times 10^{-5}$	$4.535 \times 10^{-3}$
0.4800	0.0067	$3.870 \times 10^{-2}$	$8.329 \times 10^{-3}$	$3.879 \times 10^{-5}$	$4.569 \times 10^{-3}$
0.4867	0.0067	$3.955 \times 10^{-2}$	$7.909 \times 10^{-3}$	$2.828 \times 10^{-5}$	$4.509 \times 10^{-3}$
0.4933	0.0067	$4.349 \times 10^{-2}$	$5.719 \times 10^{-3}$	$-6.297 \times 10^{-5}$	$4.102 \times 10^{-3}$
0.5000	0.0067	$4.445 \times 10^{-2}$	$5.294 \times 10^{-3}$	$-6.874 \times 10^{-5}$	$4.060 \times 10^{-3}$
0.5067	0.0067	$4.904 \times 10^{-2}$	$3.553 \times 10^{-3}$	$-9.581 \times 10^{-5}$	$3.994 \times 10^{-3}$
0.5133	0.0067	$5.022 \times 10^{-2}$	$3.239 \times 10^{-3}$	$-7.443 \times 10^{-5}$	$3.999 \times 10^{-3}$
0.5200	0.0067	$5.595 \times 10^{-2}$	$2.001 \times 10^{-3}$	$1.879 \times 10^{-5}$	$4.051 \times 10^{-3}$
0.5267	0.0067	$5.716 \times 10^{-2}$	$1.766 \times 10^{-3}$	$3.394 \times 10^{-5}$	$4.020 \times 10^{-3}$
0.5333	0.0067	$6.252 \times 10^{-2}$	$7.815 \times 10^{-4}$	$4.373 \times 10^{-5}$	$3.746 \times 10^{-3}$
0.5400	0.0067	$6.352 \times 10^{-2}$	$5.628 \times 10^{-4}$	$7.112 \times 10^{-5}$	$3.676 \times 10^{-3}$
0.5467	0.0067	$6.778 \times 10^{-2}$	$-4.328 \times 10^{-4}$	$1.816 \times 10^{-4}$	$3.341 \times 10^{-3}$
0.5533	0.0067	$6.866 \times 10^{-2}$	$-6.381 \times 10^{-4}$	$1.966 \times 10^{-4}$	$3.289 \times 10^{-3}$
0.5600	0.0067	$7.278 \times 10^{-2}$	$-1.523 \times 10^{-3}$	$1.832 \times 10^{-4}$	$3.131 \times 10^{-3}$
0.5667	0.0067	$7.360 \times 10^{-2}$	$-1.655 \times 10^{-3}$	$1.955 \times 10^{-4}$	$3.088 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.0067	$7.732 \times 10^{-2}$	$-2.072 \times 10^{-3}$	$3.012 \times 10^{-4}$	$2.842 \times 10^{-3}$
0.5800	0.0067	$7.805 \times 10^{-2}$	$-2.162 \times 10^{-3}$	$3.152 \times 10^{-4}$	$2.794 \times 10^{-3}$
0.5867	0.0067	$8.143 \times 10^{-2}$	$-2.623 \times 10^{-3}$	$2.891 \times 10^{-4}$	$2.570 \times 10^{-3}$
0.5933	0.0067	$8.206 \times 10^{-2}$	$-2.705 \times 10^{-3}$	$2.854 \times 10^{-4}$	$2.540 \times 10^{-3}$
0.6000	0.0067	$8.436 \times 10^{-2}$	$-2.967 \times 10^{-3}$	$2.974 \times 10^{-4}$	$2.472 \times 10^{-3}$
0.6067	0.0067	$8.462 \times 10^{-2}$	$-3.195 \times 10^{-3}$	$3.735 \times 10^{-4}$	$2.481 \times 10^{-3}$
0.6133	0.0067	$8.573 \times 10^{-2}$	$-3.690 \times 10^{-3}$	$3.638 \times 10^{-4}$	$2.575 \times 10^{-3}$
0.6200	0.0067	$8.639 \times 10^{-2}$	$-4.083 \times 10^{-3}$	$4.236 \times 10^{-4}$	$2.681 \times 10^{-3}$
0.6267	0.0067	$8.759 \times 10^{-2}$	$-4.892 \times 10^{-3}$	$3.101 \times 10^{-4}$	$2.915 \times 10^{-3}$
0.6333	0.0067	$8.874 \times 10^{-2}$	$-5.919 \times 10^{-3}$	$4.759 \times 10^{-4}$	$3.228 \times 10^{-3}$
0.6400	0.0067	$8.911 \times 10^{-2}$	$-6.297 \times 10^{-3}$	$5.059 \times 10^{-4}$	$3.348 \times 10^{-3}$
0.6467	0.0067	$9.172 \times 10^{-2}$	$-8.837 \times 10^{-3}$	$4.864 \times 10^{-4}$	$4.104 \times 10^{-3}$
0.6533	0.0067	$9.224 \times 10^{-2}$	$-9.202 \times 10^{-3}$	$4.518 \times 10^{-4}$	$4.205 \times 10^{-3}$
0.6600	0.0067	$9.714 \times 10^{-2}$	$-1.161 \times 10^{-2}$	$5.186 \times 10^{-4}$	$4.969 \times 10^{-3}$
0.6667	0.0067	$1.045 \times 10^{-1}$	$-1.416 \times 10^{-2}$	$8.608 \times 10^{-4}$	$5.972 \times 10^{-3}$
0.6733	0.0067	$1.138 \times 10^{-1}$	$-1.574 \times 10^{-2}$	$9.250 \times 10^{-4}$	$6.888 \times 10^{-3}$
0.6800	0.0067	$1.203 \times 10^{-1}$	$-1.642 \times 10^{-2}$	$9.944 \times 10^{-4}$	$7.450 \times 10^{-3}$
0.6867	0.0067	$1.309 \times 10^{-1}$	$-1.684 \times 10^{-2}$	$1.177 \times 10^{-3}$	$8.310 \times 10^{-3}$
0.6933	0.0067	$1.506 \times 10^{-1}$	$-1.549 \times 10^{-2}$	$1.075 \times 10^{-3}$	$9.615 \times 10^{-3}$
0.7000	0.0067	$1.648 \times 10^{-1}$	$-1.236 \times 10^{-2}$	$5.054 \times 10^{-4}$	$1.062 \times 10^{-2}$
0.7067	0.0067	$1.755 \times 10^{-1}$	$-8.013 \times 10^{-3}$	$4.685 \times 10^{-4}$	$1.123 \times 10^{-2}$
0.7133	0.0067	$1.821 \times 10^{-1}$	$-1.746 \times 10^{-3}$	$3.694 \times 10^{-4}$	$1.106 \times 10^{-2}$
0.7200	0.0067	$1.813 \times 10^{-1}$	$5.330 \times 10^{-3}$	$4.372 \times 10^{-4}$	$1.050 \times 10^{-2}$
0.7267	0.0067	$1.747 \times 10^{-1}$	$1.100 \times 10^{-2}$	$3.387 \times 10^{-4}$	$9.595 \times 10^{-3}$
0.7333	0.0067	$1.584 \times 10^{-1}$	$1.624 \times 10^{-2}$	$5.580 \times 10^{-5}$	$7.742 \times 10^{-3}$
0.7400	0.0067	$1.427 \times 10^{-1}$	$1.853 \times 10^{-2}$	$-2.651 \times 10^{-4}$	$6.368 \times 10^{-3}$
0.7467	0.0067	$1.301 \times 10^{-1}$	$1.825 \times 10^{-2}$	$-4.873 \times 10^{-4}$	$5.349 \times 10^{-3}$
0.7533	0.0067	$1.160 \times 10^{-1}$	$1.684 \times 10^{-2}$	$-5.949 \times 10^{-4}$	$4.208 \times 10^{-3}$
0.7600	0.0067	$1.086 \times 10^{-1}$	$1.460 \times 10^{-2}$	$1.724 \times 10^{-5}$	$3.553 \times 10^{-3}$
0.7667	0.0067	$1.045 \times 10^{-1}$	$1.234 \times 10^{-2}$	$-1.682 \times 10^{-4}$	$2.764 \times 10^{-3}$
0.7733	0.0067	$9.962 \times 10^{-2}$	$1.026 \times 10^{-2}$	$-1.718 \times 10^{-4}$	$2.363 \times 10^{-3}$
0.7800	0.0067	$9.685 \times 10^{-2}$	$1.004 \times 10^{-2}$	$6.584 \times 10^{-4}$	$1.948 \times 10^{-3}$
0.7867	0.0067	$9.181 \times 10^{-2}$	$9.666 \times 10^{-3}$	$1.539 \times 10^{-3}$	$1.628 \times 10^{-3}$
0.7933	0.0067	$7.825 \times 10^{-2}$	$9.624 \times 10^{-3}$	$6.837 \times 10^{-5}$	$9.152 \times 10^{-4}$
0.8000	0.0067	$5.407 \times 10^{-2}$	$7.030 \times 10^{-3}$	$-2.084 \times 10^{-4}$	$3.006 \times 10^{-4}$
0.8067	0.0067	$2.561 \times 10^{-2}$	$4.663 \times 10^{-3}$	$5.341 \times 10^{-4}$	$1.820 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.0067	$6.115 \times 10^{-3}$	$1.259 \times 10^{-3}$	$1.760 \times 10^{-5}$	$-4.956 \times 10^{-5}$
0.8200	0.0067	$4.481 \times 10^{-3}$	$-1.453 \times 10^{-3}$	$8.627 \times 10^{-4}$	$-3.387 \times 10^{-4}$
0.8267	0.0067	$3.917 \times 10^{-3}$	$-1.139 \times 10^{-3}$	$8.835 \times 10^{-4}$	$-3.030 \times 10^{-4}$
0.8333	0.0067	$3.942 \times 10^{-3}$	$-1.756 \times 10^{-5}$	$2.119 \times 10^{-3}$	$-3.730 \times 10^{-4}$
0.8400	0.0067	$4.111 \times 10^{-3}$	$1.742 \times 10^{-3}$	$1.270 \times 10^{-3}$	$-3.746 \times 10^{-4}$
0.8467	0.0067	$2.668 \times 10^{-3}$	$1.815 \times 10^{-3}$	$7.365 \times 10^{-4}$	$-2.240 \times 10^{-4}$
0.8533	0.0067	$1.525 \times 10^{-3}$	$1.169 \times 10^{-3}$	$3.643 \times 10^{-4}$	$-1.262 \times 10^{-4}$
0.8600	0.0067	$9.351 \times 10^{-4}$	$5.413 \times 10^{-4}$	$2.924 \times 10^{-4}$	$-7.311 \times 10^{-5}$
0.8667	0.0067	$1.284 \times 10^{-3}$	$4.197 \times 10^{-4}$	$1.753 \times 10^{-5}$	$-5.613 \times 10^{-5}$
0.8733	0.0067	$1.509 \times 10^{-3}$	$4.658 \times 10^{-4}$	$-1.695 \times 10^{-4}$	$-5.244 \times 10^{-5}$
0.8800	0.0067	$2.175 \times 10^{-3}$	$4.065 \times 10^{-4}$	$-2.090 \times 10^{-4}$	$-4.572 \times 10^{-5}$
0.8867	0.0067	$3.001 \times 10^{-3}$	$6.200 \times 10^{-4}$	$-1.568 \times 10^{-4}$	$-4.572 \times 10^{-5}$
0.8933	0.0067	$3.399 \times 10^{-3}$	$5.674 \times 10^{-4}$	$-3.278 \times 10^{-4}$	$-7.735 \times 10^{-5}$
0.9000	0.0067	$4.534 \times 10^{-3}$	$6.995 \times 10^{-4}$	$-2.275 \times 10^{-4}$	$-7.046 \times 10^{-5}$
0.9067	0.0067	$4.909 \times 10^{-3}$	$7.298 \times 10^{-4}$	$-2.237 \times 10^{-4}$	$-5.766 \times 10^{-5}$
0.9133	0.0067	$5.446 \times 10^{-3}$	$8.747 \times 10^{-4}$	$-4.094 \times 10^{-4}$	$-3.976 \times 10^{-5}$
0.9200	0.0067	$5.750 \times 10^{-3}$	$9.385 \times 10^{-4}$	$-2.747 \times 10^{-4}$	$-3.435 \times 10^{-5}$
0.9267	0.0067	$6.180 \times 10^{-3}$	$9.579 \times 10^{-4}$	$-3.089 \times 10^{-4}$	$-1.471 \times 10^{-5}$
0.9333	0.0067	$6.573 \times 10^{-3}$	$1.123 \times 10^{-3}$	$-1.990 \times 10^{-4}$	$-1.441 \times 10^{-5}$
0.9400	0.0067	$6.810 \times 10^{-3}$	$1.099 \times 10^{-3}$	$-2.337 \times 10^{-4}$	$-3.625 \times 10^{-6}$
0.9467	0.0067	$6.956 \times 10^{-3}$	$1.121 \times 10^{-3}$	$-1.658 \times 10^{-4}$	$-1.152 \times 10^{-5}$
0.9533	0.0067	$7.237 \times 10^{-3}$	$1.200 \times 10^{-3}$	$-3.624 \times 10^{-4}$	$-8.374 \times 10^{-6}$
0.9600	0.0067	$7.154 \times 10^{-3}$	$1.204 \times 10^{-3}$	$-2.823 \times 10^{-4}$	$1.271 \times 10^{-5}$
0.9667	0.0067	$7.383 \times 10^{-3}$	$1.273 \times 10^{-3}$	$-3.148 \times 10^{-4}$	$-1.256 \times 10^{-6}$
0.9733	0.0067	$7.388 \times 10^{-3}$	$1.498 \times 10^{-3}$	$-3.262 \times 10^{-4}$	$1.678 \times 10^{-5}$
0.9800	0.0067	$7.268 \times 10^{-3}$	$1.380 \times 10^{-3}$	$-2.220 \times 10^{-4}$	$5.050 \times 10^{-5}$
0.9867	0.0067	$7.279 \times 10^{-3}$	$1.379 \times 10^{-3}$	$-1.997 \times 10^{-4}$	$5.293 \times 10^{-5}$
0.9933	0.0067	$7.326 \times 10^{-3}$	$1.397 \times 10^{-3}$	$-1.897 \times 10^{-4}$	$5.011 \times 10^{-5}$
1.0000	0.0067	$7.642 \times 10^{-3}$	$1.497 \times 10^{-3}$	$-1.521 \times 10^{-4}$	$2.119 \times 10^{-5}$
0.4667	0.0133	$3.519 \times 10^{-2}$	$9.643 \times 10^{-3}$	$-3.075 \times 10^{-5}$	$4.622 \times 10^{-3}$
0.4733	0.0133	$3.619 \times 10^{-2}$	$9.264 \times 10^{-3}$	$2.986 \times 10^{-5}$	$4.648 \times 10^{-3}$
0.4800	0.0133	$3.910 \times 10^{-2}$	$7.987 \times 10^{-3}$	$-3.298 \times 10^{-5}$	$4.484 \times 10^{-3}$
0.4867	0.0133	$4.084 \times 10^{-2}$	$7.197 \times 10^{-3}$	$-7.383 \times 10^{-5}$	$4.381 \times 10^{-3}$
0.4933	0.0133	$4.385 \times 10^{-2}$	$5.608 \times 10^{-3}$	$-7.685 \times 10^{-5}$	$4.136 \times 10^{-3}$
0.5000	0.0133	$4.572 \times 10^{-2}$	$4.654 \times 10^{-3}$	$-8.408 \times 10^{-5}$	$4.001 \times 10^{-3}$
0.5067	0.0133	$4.968 \times 10^{-2}$	$3.500 \times 10^{-3}$	$2.163 \times 10^{-5}$	$4.039 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.0133	$5.216 \times 10^{-2}$	$2.794 \times 10^{-3}$	$7.964 \times 10^{-5}$	$4.060 \times 10^{-3}$
0.5200	0.0133	$5.655 \times 10^{-2}$	$1.968 \times 10^{-3}$	$1.020 \times 10^{-4}$	$4.022 \times 10^{-3}$
0.5267	0.0133	$5.929 \times 10^{-2}$	$1.449 \times 10^{-3}$	$1.186 \times 10^{-4}$	$3.988 \times 10^{-3}$
0.5333	0.0133	$6.274 \times 10^{-2}$	$6.897 \times 10^{-4}$	$2.269 \times 10^{-4}$	$3.707 \times 10^{-3}$
0.5400	0.0133	$6.494 \times 10^{-2}$	$2.036 \times 10^{-4}$	$3.023 \times 10^{-4}$	$3.537 \times 10^{-3}$
0.5467	0.0133	$6.789 \times 10^{-2}$	$-5.704 \times 10^{-4}$	$3.379 \times 10^{-4}$	$3.327 \times 10^{-3}$
0.5533	0.0133	$6.981 \times 10^{-2}$	$-1.061 \times 10^{-3}$	$3.670 \times 10^{-4}$	$3.197 \times 10^{-3}$
0.5600	0.0133	$7.277 \times 10^{-2}$	$-1.527 \times 10^{-3}$	$3.353 \times 10^{-4}$	$3.078 \times 10^{-3}$
0.5667	0.0133	$7.502 \times 10^{-2}$	$-1.884 \times 10^{-3}$	$3.263 \times 10^{-4}$	$2.980 \times 10^{-3}$
0.5733	0.0133	$7.637 \times 10^{-2}$	$-2.022 \times 10^{-3}$	$3.580 \times 10^{-4}$	$2.892 \times 10^{-3}$
0.5800	0.0133	$7.918 \times 10^{-2}$	$-2.341 \times 10^{-3}$	$4.479 \times 10^{-4}$	$2.704 \times 10^{-3}$
0.5867	0.0133	$7.961 \times 10^{-2}$	$-2.399 \times 10^{-3}$	$4.557 \times 10^{-4}$	$2.680 \times 10^{-3}$
0.5933	0.0133	$8.222 \times 10^{-2}$	$-2.801 \times 10^{-3}$	$4.623 \times 10^{-4}$	$2.573 \times 10^{-3}$
0.6000	0.0133	$8.387 \times 10^{-2}$	$-3.085 \times 10^{-3}$	$4.289 \times 10^{-4}$	$2.513 \times 10^{-3}$
0.6067	0.0133	$8.460 \times 10^{-2}$	$-3.207 \times 10^{-3}$	$3.845 \times 10^{-4}$	$2.480 \times 10^{-3}$
0.6133	0.0133	$8.585 \times 10^{-2}$	$-3.806 \times 10^{-3}$	$4.758 \times 10^{-4}$	$2.618 \times 10^{-3}$
0.6200	0.0133	$8.635 \times 10^{-2}$	$-4.046 \times 10^{-3}$	$4.926 \times 10^{-4}$	$2.672 \times 10^{-3}$
0.6267	0.0133	$8.756 \times 10^{-2}$	$-4.842 \times 10^{-3}$	$5.971 \times 10^{-4}$	$2.902 \times 10^{-3}$
0.6333	0.0133	$8.846 \times 10^{-2}$	$-5.668 \times 10^{-3}$	$5.595 \times 10^{-4}$	$3.148 \times 10^{-3}$
0.6400	0.0133	$8.929 \times 10^{-2}$	$-6.669 \times 10^{-3}$	$6.654 \times 10^{-4}$	$3.460 \times 10^{-3}$
0.6467	0.0133	$9.007 \times 10^{-2}$	$-7.611 \times 10^{-3}$	$7.291 \times 10^{-4}$	$3.777 \times 10^{-3}$
0.6533	0.0133	$9.349 \times 10^{-2}$	$-9.895 \times 10^{-3}$	$9.291 \times 10^{-4}$	$4.462 \times 10^{-3}$
0.6600	0.0133	$9.770 \times 10^{-2}$	$-1.163 \times 10^{-2}$	$1.094 \times 10^{-3}$	$5.006 \times 10^{-3}$
0.6667	0.0133	$1.015 \times 10^{-1}$	$-1.289 \times 10^{-2}$	$1.234 \times 10^{-3}$	$5.478 \times 10^{-3}$
0.6733	0.0133	$1.090 \times 10^{-1}$	$-1.481 \times 10^{-2}$	$1.453 \times 10^{-3}$	$6.323 \times 10^{-3}$
0.6800	0.0133	$1.191 \times 10^{-1}$	$-1.639 \times 10^{-2}$	$1.552 \times 10^{-3}$	$7.315 \times 10^{-3}$
0.6867	0.0133	$1.326 \times 10^{-1}$	$-1.698 \times 10^{-2}$	$2.019 \times 10^{-3}$	$8.501 \times 10^{-3}$
0.6933	0.0133	$1.465 \times 10^{-1}$	$-1.618 \times 10^{-2}$	$1.947 \times 10^{-3}$	$9.486 \times 10^{-3}$
0.7000	0.0133	$1.603 \times 10^{-1}$	$-1.387 \times 10^{-2}$	$1.429 \times 10^{-3}$	$1.043 \times 10^{-2}$
0.7067	0.0133	$1.727 \times 10^{-1}$	$-9.450 \times 10^{-3}$	$1.306 \times 10^{-3}$	$1.113 \times 10^{-2}$
0.7133	0.0133	$1.818 \times 10^{-1}$	$-2.547 \times 10^{-3}$	$1.169 \times 10^{-3}$	$1.114 \times 10^{-2}$
0.7200	0.0133	$1.809 \times 10^{-1}$	$6.076 \times 10^{-3}$	$7.936 \times 10^{-4}$	$1.038 \times 10^{-2}$
0.7267	0.0133	$1.731 \times 10^{-1}$	$1.274 \times 10^{-2}$	$5.280 \times 10^{-4}$	$9.238 \times 10^{-3}$
0.7333	0.0133	$1.603 \times 10^{-1}$	$1.616 \times 10^{-2}$	$3.731 \times 10^{-5}$	$7.920 \times 10^{-3}$
0.7400	0.0133	$1.460 \times 10^{-1}$	$1.820 \times 10^{-2}$	$-5.884 \times 10^{-4}$	$6.703 \times 10^{-3}$
0.7467	0.0133	$1.288 \times 10^{-1}$	$1.848 \times 10^{-2}$	$-7.214 \times 10^{-4}$	$5.209 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.0133	$1.170 \times 10^{-1}$	$1.741 \times 10^{-2}$	$-5.135 \times 10^{-4}$	$4.404 \times 10^{-3}$
0.7600	0.0133	$1.084 \times 10^{-1}$	$1.473 \times 10^{-2}$	$-1.607 \times 10^{-4}$	$3.382 \times 10^{-3}$
0.7667	0.0133	$1.039 \times 10^{-1}$	$1.292 \times 10^{-2}$	$2.893 \times 10^{-5}$	$2.850 \times 10^{-3}$
0.7733	0.0133	$9.953 \times 10^{-2}$	$1.042 \times 10^{-2}$	$7.265 \times 10^{-4}$	$2.398 \times 10^{-3}$
0.7800	0.0133	$9.619 \times 10^{-2}$	$9.993 \times 10^{-3}$	$1.078 \times 10^{-3}$	$1.961 \times 10^{-3}$
0.7867	0.0133	$8.996 \times 10^{-2}$	$1.044 \times 10^{-2}$	$1.129 \times 10^{-3}$	$1.576 \times 10^{-3}$
0.7933	0.0133	$7.810 \times 10^{-2}$	$9.970 \times 10^{-3}$	$7.017 \times 10^{-4}$	$1.009 \times 10^{-3}$
0.8000	0.0133	$5.910 \times 10^{-2}$	$8.763 \times 10^{-3}$	$-1.361 \times 10^{-4}$	$4.639 \times 10^{-4}$
0.8067	0.0133	$3.224 \times 10^{-2}$	$5.561 \times 10^{-3}$	$2.652 \times 10^{-4}$	$-7.508 \times 10^{-5}$
0.8133	0.0133	$1.272 \times 10^{-2}$	$2.379 \times 10^{-3}$	$-7.470 \times 10^{-5}$	$-1.460 \times 10^{-4}$
0.8200	0.0133	$5.481 \times 10^{-3}$	$4.293 \times 10^{-4}$	$5.818 \times 10^{-4}$	$-9.150 \times 10^{-5}$
0.8267	0.0133	$3.804 \times 10^{-3}$	$-7.367 \times 10^{-4}$	$1.384 \times 10^{-3}$	$-2.684 \times 10^{-4}$
0.8333	0.0133	$3.728 \times 10^{-3}$	$-1.028 \times 10^{-4}$	$2.302 \times 10^{-3}$	$-3.509 \times 10^{-4}$
0.8400	0.0133	$3.143 \times 10^{-3}$	$1.014 \times 10^{-3}$	$1.750 \times 10^{-3}$	$-2.675 \times 10^{-4}$
0.8467	0.0133	$1.718 \times 10^{-3}$	$8.851 \times 10^{-4}$	$5.992 \times 10^{-4}$	$-9.127 \times 10^{-5}$
0.8533	0.0133	$9.682 \times 10^{-4}$	$6.078 \times 10^{-4}$	$2.227 \times 10^{-4}$	$-3.866 \times 10^{-5}$
0.8600	0.0133	$1.178 \times 10^{-3}$	$5.698 \times 10^{-4}$	$1.191 \times 10^{-4}$	$-3.275 \times 10^{-5}$
0.8667	0.0133	$1.603 \times 10^{-3}$	$4.915 \times 10^{-4}$	$-2.195 \times 10^{-4}$	$-3.264 \times 10^{-5}$
0.8733	0.0133	$1.809 \times 10^{-3}$	$4.216 \times 10^{-4}$	$-1.670 \times 10^{-4}$	$-3.964 \times 10^{-5}$
0.8800	0.0133	$2.565 \times 10^{-3}$	$5.382 \times 10^{-4}$	$-4.307 \times 10^{-4}$	$-4.075 \times 10^{-5}$
0.8867	0.0133	$3.624 \times 10^{-3}$	$7.126 \times 10^{-4}$	$-4.205 \times 10^{-4}$	$-4.489 \times 10^{-5}$
0.8933	0.0133	$3.915 \times 10^{-3}$	$6.402 \times 10^{-4}$	$-4.874 \times 10^{-4}$	$-5.761 \times 10^{-5}$
0.9000	0.0133	$4.704 \times 10^{-3}$	$7.710 \times 10^{-4}$	$-4.665 \times 10^{-4}$	$-5.673 \times 10^{-5}$
0.9067	0.0133	$5.217 \times 10^{-3}$	$8.214 \times 10^{-4}$	$-5.055 \times 10^{-4}$	$-6.001 \times 10^{-5}$
0.9133	0.0133	$5.598 \times 10^{-3}$	$1.038 \times 10^{-3}$	$-7.050 \times 10^{-4}$	$-4.983 \times 10^{-5}$
0.9200	0.0133	$6.185 \times 10^{-3}$	$1.020 \times 10^{-3}$	$-5.392 \times 10^{-4}$	$-4.585 \times 10^{-5}$
0.9267	0.0133	$6.478 \times 10^{-3}$	$9.189 \times 10^{-4}$	$-7.826 \times 10^{-4}$	$-2.614 \times 10^{-5}$
0.9333	0.0133	$6.757 \times 10^{-3}$	$1.219 \times 10^{-3}$	$-5.654 \times 10^{-4}$	$-2.505 \times 10^{-5}$
0.9400	0.0133	$7.024 \times 10^{-3}$	$1.169 \times 10^{-3}$	$-5.971 \times 10^{-4}$	$-1.051 \times 10^{-5}$
0.9467	0.0133	$7.033 \times 10^{-3}$	$1.189 \times 10^{-3}$	$-4.329 \times 10^{-4}$	$3.185 \times 10^{-5}$
0.9533	0.0133	$7.282 \times 10^{-3}$	$1.421 \times 10^{-3}$	$-5.047 \times 10^{-4}$	$3.331 \times 10^{-5}$
0.9600	0.0133	$7.265 \times 10^{-3}$	$1.363 \times 10^{-3}$	$-4.763 \times 10^{-4}$	$3.600 \times 10^{-5}$
0.9667	0.0133	$7.193 \times 10^{-3}$	$1.330 \times 10^{-3}$	$-4.216 \times 10^{-4}$	$1.695 \times 10^{-5}$
0.9733	0.0133	$7.379 \times 10^{-3}$	$1.422 \times 10^{-3}$	$-4.363 \times 10^{-4}$	$1.115 \times 10^{-6}$
0.9800	0.0133	$7.477 \times 10^{-3}$	$1.373 \times 10^{-3}$	$-4.522 \times 10^{-4}$	$1.676 \times 10^{-5}$
0.9867	0.0133	$7.226 \times 10^{-3}$	$1.409 \times 10^{-3}$	$-4.360 \times 10^{-4}$	$5.099 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.0133	$7.392 \times 10^{-3}$	$1.441 \times 10^{-3}$	$-4.614 \times 10^{-4}$	$3.657 \times 10^{-5}$
1.0000	0.0133	$7.526 \times 10^{-3}$	$1.435 \times 10^{-3}$	$-3.112 \times 10^{-4}$	$2.195 \times 10^{-5}$
0.4667	0.0200	$3.533 \times 10^{-2}$	$9.590 \times 10^{-3}$	$-4.574 \times 10^{-6}$	$4.640 \times 10^{-3}$
0.4733	0.0200	$3.610 \times 10^{-2}$	$9.311 \times 10^{-3}$	$4.046 \times 10^{-5}$	$4.663 \times 10^{-3}$
0.4800	0.0200	$3.936 \times 10^{-2}$	$7.868 \times 10^{-3}$	$-3.512 \times 10^{-5}$	$4.476 \times 10^{-3}$
0.4867	0.0200	$4.079 \times 10^{-2}$	$7.228 \times 10^{-3}$	$-7.849 \times 10^{-5}$	$4.387 \times 10^{-3}$
0.4933	0.0200	$4.413 \times 10^{-2}$	$5.474 \times 10^{-3}$	$-7.403 \times 10^{-5}$	$4.119 \times 10^{-3}$
0.5000	0.0200	$4.563 \times 10^{-2}$	$4.648 \times 10^{-3}$	$-9.103 \times 10^{-5}$	$3.989 \times 10^{-3}$
0.5067	0.0200	$5.001 \times 10^{-2}$	$3.402 \times 10^{-3}$	$5.158 \times 10^{-5}$	$4.044 \times 10^{-3}$
0.5133	0.0200	$5.209 \times 10^{-2}$	$2.790 \times 10^{-3}$	$8.612 \times 10^{-5}$	$4.064 \times 10^{-3}$
0.5200	0.0200	$5.694 \times 10^{-2}$	$1.902 \times 10^{-3}$	$1.355 \times 10^{-4}$	$4.025 \times 10^{-3}$
0.5267	0.0200	$5.930 \times 10^{-2}$	$1.455 \times 10^{-3}$	$1.181 \times 10^{-4}$	$4.002 \times 10^{-3}$
0.5333	0.0200	$6.302 \times 10^{-2}$	$6.304 \times 10^{-4}$	$2.702 \times 10^{-4}$	$3.685 \times 10^{-3}$
0.5400	0.0200	$6.493 \times 10^{-2}$	$2.115 \times 10^{-4}$	$3.116 \times 10^{-4}$	$3.537 \times 10^{-3}$
0.5467	0.0200	$6.808 \times 10^{-2}$	$-6.441 \times 10^{-4}$	$3.844 \times 10^{-4}$	$3.303 \times 10^{-3}$
0.5533	0.0200	$6.978 \times 10^{-2}$	$-1.074 \times 10^{-3}$	$3.767 \times 10^{-4}$	$3.193 \times 10^{-3}$
0.5600	0.0200	$7.284 \times 10^{-2}$	$-1.564 \times 10^{-3}$	$3.794 \times 10^{-4}$	$3.066 \times 10^{-3}$
0.5667	0.0200	$7.507 \times 10^{-2}$	$-1.900 \times 10^{-3}$	$3.282 \times 10^{-4}$	$2.978 \times 10^{-3}$
0.5733	0.0200	$7.612 \times 10^{-2}$	$-2.009 \times 10^{-3}$	$3.986 \times 10^{-4}$	$2.902 \times 10^{-3}$
0.5800	0.0200	$7.930 \times 10^{-2}$	$-2.353 \times 10^{-3}$	$4.656 \times 10^{-4}$	$2.694 \times 10^{-3}$
0.5867	0.0200	$7.948 \times 10^{-2}$	$-2.378 \times 10^{-3}$	$4.715 \times 10^{-4}$	$2.684 \times 10^{-3}$
0.5933	0.0200	$8.262 \times 10^{-2}$	$-2.887 \times 10^{-3}$	$5.177 \times 10^{-4}$	$2.562 \times 10^{-3}$
0.6000	0.0200	$8.283 \times 10^{-2}$	$-2.923 \times 10^{-3}$	$5.157 \times 10^{-4}$	$2.555 \times 10^{-3}$
0.6067	0.0200	$8.478 \times 10^{-2}$	$-3.360 \times 10^{-3}$	$6.284 \times 10^{-4}$	$2.533 \times 10^{-3}$
0.6133	0.0200	$8.534 \times 10^{-2}$	$-3.546 \times 10^{-3}$	$6.599 \times 10^{-4}$	$2.557 \times 10^{-3}$
0.6200	0.0200	$8.645 \times 10^{-2}$	$-4.114 \times 10^{-3}$	$6.426 \times 10^{-4}$	$2.696 \times 10^{-3}$
0.6267	0.0200	$8.754 \times 10^{-2}$	$-4.824 \times 10^{-3}$	$6.560 \times 10^{-4}$	$2.895 \times 10^{-3}$
0.6333	0.0200	$8.805 \times 10^{-2}$	$-5.394 \times 10^{-3}$	$7.389 \times 10^{-4}$	$3.053 \times 10^{-3}$
0.6400	0.0200	$8.887 \times 10^{-2}$	$-6.471 \times 10^{-3}$	$8.460 \times 10^{-4}$	$3.352 \times 10^{-3}$
0.6467	0.0200	$9.103 \times 10^{-2}$	$-8.167 \times 10^{-3}$	$1.181 \times 10^{-3}$	$3.945 \times 10^{-3}$
0.6533	0.0200	$9.280 \times 10^{-2}$	$-9.310 \times 10^{-3}$	$1.312 \times 10^{-3}$	$4.302 \times 10^{-3}$
0.6600	0.0200	$9.523 \times 10^{-2}$	$-1.074 \times 10^{-2}$	$1.688 \times 10^{-3}$	$4.749 \times 10^{-3}$
0.6667	0.0200	$1.017 \times 10^{-1}$	$-1.309 \times 10^{-2}$	$2.010 \times 10^{-3}$	$5.498 \times 10^{-3}$
0.6733	0.0200	$1.105 \times 10^{-1}$	$-1.505 \times 10^{-2}$	$1.951 \times 10^{-3}$	$6.480 \times 10^{-3}$
0.6800	0.0200	$1.204 \times 10^{-1}$	$-1.644 \times 10^{-2}$	$2.223 \times 10^{-3}$	$7.454 \times 10^{-3}$
0.6867	0.0200	$1.326 \times 10^{-1}$	$-1.696 \times 10^{-2}$	$2.565 \times 10^{-3}$	$8.511 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.0200	$1.474 \times 10^{-1}$	$-1.642 \times 10^{-2}$	$2.673 \times 10^{-3}$	$9.558 \times 10^{-3}$
0.7000	0.0200	$1.626 \times 10^{-1}$	$-1.395 \times 10^{-2}$	$2.605 \times 10^{-3}$	$1.057 \times 10^{-2}$
0.7067	0.0200	$1.746 \times 10^{-1}$	$-8.703 \times 10^{-3}$	$2.803 \times 10^{-3}$	$1.107 \times 10^{-2}$
0.7133	0.0200	$1.825 \times 10^{-1}$	$-2.369 \times 10^{-3}$	$1.991 \times 10^{-3}$	$1.117 \times 10^{-2}$
0.7200	0.0200	$1.824 \times 10^{-1}$	$4.141 \times 10^{-3}$	$1.246 \times 10^{-3}$	$1.064 \times 10^{-2}$
0.7267	0.0200	$1.767 \times 10^{-1}$	$1.060 \times 10^{-2}$	$1.323 \times 10^{-3}$	$9.671 \times 10^{-3}$
0.7333	0.0200	$1.629 \times 10^{-1}$	$1.607 \times 10^{-2}$	$2.491 \times 10^{-4}$	$8.400 \times 10^{-3}$
0.7400	0.0200	$1.434 \times 10^{-1}$	$1.866 \times 10^{-2}$	$-3.274 \times 10^{-4}$	$6.678 \times 10^{-3}$
0.7467	0.0200	$1.322 \times 10^{-1}$	$1.878 \times 10^{-2}$	$-9.281 \times 10^{-4}$	$5.582 \times 10^{-3}$
0.7533	0.0200	$1.176 \times 10^{-1}$	$1.759 \times 10^{-2}$	$-4.546 \times 10^{-4}$	$4.352 \times 10^{-3}$
0.7600	0.0200	$1.086 \times 10^{-1}$	$1.538 \times 10^{-2}$	$1.688 \times 10^{-4}$	$3.578 \times 10^{-3}$
0.7667	0.0200	$1.020 \times 10^{-1}$	$1.325 \times 10^{-2}$	$7.326 \times 10^{-4}$	$2.891 \times 10^{-3}$
0.7733	0.0200	$9.832 \times 10^{-2}$	$1.144 \times 10^{-2}$	$6.046 \times 10^{-4}$	$2.439 \times 10^{-3}$
0.7800	0.0200	$9.553 \times 10^{-2}$	$1.067 \times 10^{-2}$	$1.040 \times 10^{-3}$	$2.121 \times 10^{-3}$
0.7867	0.0200	$8.950 \times 10^{-2}$	$1.029 \times 10^{-2}$	$1.213 \times 10^{-3}$	$1.696 \times 10^{-3}$
0.7933	0.0200	$7.957 \times 10^{-2}$	$1.021 \times 10^{-2}$	$8.567 \times 10^{-4}$	$1.053 \times 10^{-3}$
0.8000	0.0200	$6.454 \times 10^{-2}$	$9.214 \times 10^{-3}$	$9.219 \times 10^{-4}$	$6.270 \times 10^{-4}$
0.8067	0.0200	$4.393 \times 10^{-2}$	$7.273 \times 10^{-3}$	$2.970 \times 10^{-4}$	$1.267 \times 10^{-4}$
0.8133	0.0200	$2.262 \times 10^{-2}$	$4.107 \times 10^{-3}$	$-6.197 \times 10^{-6}$	$-8.397 \times 10^{-5}$
0.8200	0.0200	$9.559 \times 10^{-3}$	$1.644 \times 10^{-3}$	$2.959 \times 10^{-4}$	$-1.318 \times 10^{-4}$
0.8267	0.0200	$4.014 \times 10^{-3}$	$3.186 \times 10^{-4}$	$1.048 \times 10^{-3}$	$-1.046 \times 10^{-4}$
0.8333	0.0200	$2.961 \times 10^{-3}$	$2.399 \times 10^{-4}$	$1.175 \times 10^{-3}$	$-1.007 \times 10^{-4}$
0.8400	0.0200	$2.518 \times 10^{-3}$	$4.604 \times 10^{-4}$	$8.757 \times 10^{-4}$	$-1.236 \times 10^{-4}$
0.8467	0.0200	$2.198 \times 10^{-3}$	$7.754 \times 10^{-4}$	$5.086 \times 10^{-4}$	$-8.756 \times 10^{-5}$
0.8533	0.0200	$1.742 \times 10^{-3}$	$6.454 \times 10^{-4}$	$6.645 \times 10^{-5}$	$-5.131 \times 10^{-5}$
0.8600	0.0200	$1.848 \times 10^{-3}$	$4.763 \times 10^{-4}$	$-1.388 \times 10^{-4}$	$-4.178 \times 10^{-5}$
0.8667	0.0200	$2.518 \times 10^{-3}$	$7.702 \times 10^{-4}$	$-2.966 \times 10^{-4}$	$-6.238 \times 10^{-5}$
0.8733	0.0200	$3.171 \times 10^{-3}$	$9.173 \times 10^{-4}$	$-4.653 \times 10^{-4}$	$-5.719 \times 10^{-5}$
0.8800	0.0200	$3.759 \times 10^{-3}$	$8.013 \times 10^{-4}$	$-6.651 \times 10^{-4}$	$-8.080 \times 10^{-5}$
0.8867	0.0200	$4.558 \times 10^{-3}$	$9.963 \times 10^{-4}$	$-8.822 \times 10^{-4}$	$-6.556 \times 10^{-5}$
0.8933	0.0200	$4.753 \times 10^{-3}$	$9.374 \times 10^{-4}$	$-6.036 \times 10^{-4}$	$-6.234 \times 10^{-5}$
0.9000	0.0200	$5.401 \times 10^{-3}$	$9.982 \times 10^{-4}$	$-8.785 \times 10^{-4}$	$-4.653 \times 10^{-5}$
0.9067	0.0200	$5.933 \times 10^{-3}$	$9.615 \times 10^{-4}$	$-7.541 \times 10^{-4}$	$-5.779 \times 10^{-5}$
0.9133	0.0200	$6.183 \times 10^{-3}$	$1.199 \times 10^{-3}$	$-1.168 \times 10^{-3}$	$-2.252 \times 10^{-5}$
0.9200	0.0200	$6.527 \times 10^{-3}$	$1.256 \times 10^{-3}$	$-9.694 \times 10^{-4}$	$-2.866 \times 10^{-5}$
0.9267	0.0200	$6.681 \times 10^{-3}$	$1.296 \times 10^{-3}$	$-9.996 \times 10^{-4}$	$-2.755 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.0200	$7.012 \times 10^{-3}$	$1.461 \times 10^{-3}$	$-9.311 \times 10^{-4}$	$-1.169 \times 10^{-5}$
0.9400	0.0200	$7.216 \times 10^{-3}$	$1.458 \times 10^{-3}$	$-8.513 \times 10^{-4}$	$-1.617 \times 10^{-5}$
0.9467	0.0200	$7.173 \times 10^{-3}$	$1.355 \times 10^{-3}$	$-7.212 \times 10^{-4}$	$2.760 \times 10^{-5}$
0.9533	0.0200	$7.256 \times 10^{-3}$	$1.566 \times 10^{-3}$	$-7.567 \times 10^{-4}$	$4.040 \times 10^{-5}$
0.9600	0.0200	$7.278 \times 10^{-3}$	$1.496 \times 10^{-3}$	$-7.346 \times 10^{-4}$	$1.605 \times 10^{-6}$
0.9667	0.0200	$7.302 \times 10^{-3}$	$1.504 \times 10^{-3}$	$-7.115 \times 10^{-4}$	$2.379 \times 10^{-5}$
0.9733	0.0200	$7.549 \times 10^{-3}$	$1.504 \times 10^{-3}$	$-6.377 \times 10^{-4}$	$2.755 \times 10^{-5}$
0.9800	0.0200	$7.490 \times 10^{-3}$	$1.504 \times 10^{-3}$	$-5.025 \times 10^{-4}$	$5.822 \times 10^{-5}$
0.9867	0.0200	$7.358 \times 10^{-3}$	$1.508 \times 10^{-3}$	$-5.381 \times 10^{-4}$	$5.314 \times 10^{-5}$
0.9933	0.0200	$7.346 \times 10^{-3}$	$1.501 \times 10^{-3}$	$-5.375 \times 10^{-4}$	$4.647 \times 10^{-5}$
1.0000	0.0200	$7.501 \times 10^{-3}$	$1.440 \times 10^{-3}$	$-3.936 \times 10^{-4}$	$2.811 \times 10^{-5}$
0.4667	0.0267	$3.473 \times 10^{-2}$	$9.728 \times 10^{-3}$	$1.254 \times 10^{-4}$	$4.698 \times 10^{-3}$
0.4733	0.0267	$3.716 \times 10^{-2}$	$8.840 \times 10^{-3}$	$5.428 \times 10^{-5}$	$4.630 \times 10^{-3}$
0.4800	0.0267	$3.842 \times 10^{-2}$	$8.327 \times 10^{-3}$	$3.192 \times 10^{-5}$	$4.582 \times 10^{-3}$
0.4867	0.0267	$4.181 \times 10^{-2}$	$6.821 \times 10^{-3}$	$-1.719 \times 10^{-5}$	$4.335 \times 10^{-3}$
0.4933	0.0267	$4.336 \times 10^{-2}$	$6.141 \times 10^{-3}$	$-1.044 \times 10^{-5}$	$4.232 \times 10^{-3}$
0.5000	0.0267	$4.664 \times 10^{-2}$	$4.499 \times 10^{-3}$	$8.840 \times 10^{-5}$	$4.052 \times 10^{-3}$
0.5067	0.0267	$4.828 \times 10^{-2}$	$3.891 \times 10^{-3}$	$1.756 \times 10^{-4}$	$4.022 \times 10^{-3}$
0.5133	0.0267	$5.319 \times 10^{-2}$	$2.700 \times 10^{-3}$	$2.899 \times 10^{-4}$	$4.092 \times 10^{-3}$
0.5200	0.0267	$5.530 \times 10^{-2}$	$2.267 \times 10^{-3}$	$3.760 \times 10^{-4}$	$4.109 \times 10^{-3}$
0.5267	0.0267	$5.975 \times 10^{-2}$	$1.374 \times 10^{-3}$	$3.185 \times 10^{-4}$	$3.896 \times 10^{-3}$
0.5333	0.0267	$6.147 \times 10^{-2}$	$1.021 \times 10^{-3}$	$3.633 \times 10^{-4}$	$3.780 \times 10^{-3}$
0.5400	0.0267	$6.508 \times 10^{-2}$	$-6.168 \times 10^{-6}$	$5.379 \times 10^{-4}$	$3.438 \times 10^{-3}$
0.5467	0.0267	$6.645 \times 10^{-2}$	$-4.234 \times 10^{-4}$	$6.458 \times 10^{-4}$	$3.297 \times 10^{-3}$
0.5533	0.0267	$7.010 \times 10^{-2}$	$-1.210 \times 10^{-3}$	$5.770 \times 10^{-4}$	$3.160 \times 10^{-3}$
0.5600	0.0267	$7.151 \times 10^{-2}$	$-1.514 \times 10^{-3}$	$6.092 \times 10^{-4}$	$3.099 \times 10^{-3}$
0.5667	0.0267	$7.492 \times 10^{-2}$	$-1.878 \times 10^{-3}$	$5.083 \times 10^{-4}$	$2.946 \times 10^{-3}$
0.5733	0.0267	$7.645 \times 10^{-2}$	$-2.040 \times 10^{-3}$	$5.370 \times 10^{-4}$	$2.859 \times 10^{-3}$
0.5800	0.0267	$7.841 \times 10^{-2}$	$-2.264 \times 10^{-3}$	$5.807 \times 10^{-4}$	$2.744 \times 10^{-3}$
0.5867	0.0267	$8.033 \times 10^{-2}$	$-2.500 \times 10^{-3}$	$7.203 \times 10^{-4}$	$2.631 \times 10^{-3}$
0.5933	0.0267	$8.160 \times 10^{-2}$	$-2.722 \times 10^{-3}$	$6.713 \times 10^{-4}$	$2.589 \times 10^{-3}$
0.6000	0.0267	$8.301 \times 10^{-2}$	$-2.997 \times 10^{-3}$	$6.538 \times 10^{-4}$	$2.551 \times 10^{-3}$
0.6067	0.0267	$8.481 \times 10^{-2}$	$-3.377 \times 10^{-3}$	$7.102 \times 10^{-4}$	$2.532 \times 10^{-3}$
0.6133	0.0267	$8.520 \times 10^{-2}$	$-3.476 \times 10^{-3}$	$7.112 \times 10^{-4}$	$2.538 \times 10^{-3}$
0.6200	0.0267	$8.656 \times 10^{-2}$	$-4.142 \times 10^{-3}$	$8.084 \times 10^{-4}$	$2.705 \times 10^{-3}$
0.6267	0.0267	$8.689 \times 10^{-2}$	$-4.435 \times 10^{-3}$	$8.513 \times 10^{-4}$	$2.782 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.0267	$8.791 \times 10^{-2}$	$-5.363 \times 10^{-3}$	$1.001 \times 10^{-3}$	$3.021 \times 10^{-3}$
0.6400	0.0267	$8.936 \times 10^{-2}$	$-6.773 \times 10^{-3}$	$1.308 \times 10^{-3}$	$3.471 \times 10^{-3}$
0.6467	0.0267	$9.022 \times 10^{-2}$	$-7.443 \times 10^{-3}$	$1.405 \times 10^{-3}$	$3.710 \times 10^{-3}$
0.6533	0.0267	$9.225 \times 10^{-2}$	$-8.751 \times 10^{-3}$	$1.750 \times 10^{-3}$	$4.239 \times 10^{-3}$
0.6600	0.0267	$9.652 \times 10^{-2}$	$-1.139 \times 10^{-2}$	$2.155 \times 10^{-3}$	$4.952 \times 10^{-3}$
0.6667	0.0267	$1.018 \times 10^{-1}$	$-1.322 \times 10^{-2}$	$2.361 \times 10^{-3}$	$5.581 \times 10^{-3}$
0.6733	0.0267	$1.088 \times 10^{-1}$	$-1.484 \times 10^{-2}$	$2.572 \times 10^{-3}$	$6.379 \times 10^{-3}$
0.6800	0.0267	$1.175 \times 10^{-1}$	$-1.610 \times 10^{-2}$	$3.248 \times 10^{-3}$	$7.293 \times 10^{-3}$
0.6867	0.0267	$1.299 \times 10^{-1}$	$-1.683 \times 10^{-2}$	$4.007 \times 10^{-3}$	$8.305 \times 10^{-3}$
0.6933	0.0267	$1.436 \times 10^{-1}$	$-1.619 \times 10^{-2}$	$4.095 \times 10^{-3}$	$9.304 \times 10^{-3}$
0.7000	0.0267	$1.592 \times 10^{-1}$	$-1.415 \times 10^{-2}$	$4.386 \times 10^{-3}$	$1.044 \times 10^{-2}$
0.7067	0.0267	$1.728 \times 10^{-1}$	$-9.902 \times 10^{-3}$	$4.198 \times 10^{-3}$	$1.107 \times 10^{-2}$
0.7133	0.0267	$1.806 \times 10^{-1}$	$-4.085 \times 10^{-3}$	$3.548 \times 10^{-3}$	$1.128 \times 10^{-2}$
0.7200	0.0267	$1.839 \times 10^{-1}$	$3.116 \times 10^{-3}$	$2.859 \times 10^{-3}$	$1.087 \times 10^{-2}$
0.7267	0.0267	$1.788 \times 10^{-1}$	$9.891 \times 10^{-3}$	$2.037 \times 10^{-3}$	$9.900 \times 10^{-3}$
0.7333	0.0267	$1.644 \times 10^{-1}$	$1.618 \times 10^{-2}$	$7.528 \times 10^{-4}$	$8.539 \times 10^{-3}$
0.7400	0.0267	$1.473 \times 10^{-1}$	$1.921 \times 10^{-2}$	$-2.359 \times 10^{-4}$	$7.059 \times 10^{-3}$
0.7467	0.0267	$1.351 \times 10^{-1}$	$1.959 \times 10^{-2}$	$-4.303 \times 10^{-4}$	$5.859 \times 10^{-3}$
0.7533	0.0267	$1.180 \times 10^{-1}$	$1.804 \times 10^{-2}$	$-3.764 \times 10^{-5}$	$4.554 \times 10^{-3}$
0.7600	0.0267	$1.090 \times 10^{-1}$	$1.603 \times 10^{-2}$	$1.903 \times 10^{-4}$	$3.798 \times 10^{-3}$
0.7667	0.0267	$1.019 \times 10^{-1}$	$1.431 \times 10^{-2}$	$2.975 \times 10^{-4}$	$3.031 \times 10^{-3}$
0.7733	0.0267	$9.858 \times 10^{-2}$	$1.241 \times 10^{-2}$	$9.672 \times 10^{-4}$	$2.599 \times 10^{-3}$
0.7800	0.0267	$9.404 \times 10^{-2}$	$1.085 \times 10^{-2}$	$1.603 \times 10^{-3}$	$2.100 \times 10^{-3}$
0.7867	0.0267	$8.763 \times 10^{-2}$	$1.018 \times 10^{-2}$	$1.793 \times 10^{-3}$	$1.583 \times 10^{-3}$
0.7933	0.0267	$7.978 \times 10^{-2}$	$1.079 \times 10^{-2}$	$1.653 \times 10^{-3}$	$1.321 \times 10^{-3}$
0.8000	0.0267	$6.760 \times 10^{-2}$	$1.068 \times 10^{-2}$	$1.034 \times 10^{-3}$	$8.154 \times 10^{-4}$
0.8067	0.0267	$5.259 \times 10^{-2}$	$8.987 \times 10^{-3}$	$6.334 \times 10^{-5}$	$4.224 \times 10^{-4}$
0.8133	0.0267	$3.420 \times 10^{-2}$	$6.193 \times 10^{-3}$	$-5.352 \times 10^{-4}$	$-3.499 \times 10^{-5}$
0.8200	0.0267	$1.971 \times 10^{-2}$	$3.419 \times 10^{-3}$	$9.085 \times 10^{-5}$	$-1.552 \times 10^{-4}$
0.8267	0.0267	$1.030 \times 10^{-2}$	$1.987 \times 10^{-3}$	$7.045 \times 10^{-5}$	$-9.432 \times 10^{-5}$
0.8333	0.0267	$6.233 \times 10^{-3}$	$1.212 \times 10^{-3}$	$3.326 \times 10^{-5}$	$-9.884 \times 10^{-5}$
0.8400	0.0267	$4.224 \times 10^{-3}$	$1.111 \times 10^{-3}$	$-1.206 \times 10^{-4}$	$-7.741 \times 10^{-5}$
0.8467	0.0267	$3.490 \times 10^{-3}$	$9.364 \times 10^{-4}$	$-1.612 \times 10^{-4}$	$-5.869 \times 10^{-5}$
0.8533	0.0267	$3.468 \times 10^{-3}$	$1.024 \times 10^{-3}$	$-4.329 \times 10^{-4}$	$-5.279 \times 10^{-5}$
0.8600	0.0267	$3.309 \times 10^{-3}$	$7.941 \times 10^{-4}$	$-5.503 \times 10^{-4}$	$-6.771 \times 10^{-5}$
0.8667	0.0267	$4.236 \times 10^{-3}$	$1.161 \times 10^{-3}$	$-6.433 \times 10^{-4}$	$-6.640 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.0267	$4.434 \times 10^{-3}$	$1.061 \times 10^{-3}$	$-8.522 \times 10^{-4}$	$-8.151 \times 10^{-5}$
0.8800	0.0267	$5.205 \times 10^{-3}$	$1.205 \times 10^{-3}$	$-9.690 \times 10^{-4}$	$-5.384 \times 10^{-5}$
0.8867	0.0267	$6.343 \times 10^{-3}$	$1.393 \times 10^{-3}$	$-1.212 \times 10^{-3}$	$-4.800 \times 10^{-5}$
0.8933	0.0267	$6.358 \times 10^{-3}$	$1.378 \times 10^{-3}$	$-1.292 \times 10^{-3}$	$-5.371 \times 10^{-5}$
0.9000	0.0267	$6.508 \times 10^{-3}$	$1.436 \times 10^{-3}$	$-1.256 \times 10^{-3}$	$-3.403 \times 10^{-5}$
0.9067	0.0267	$6.765 \times 10^{-3}$	$1.444 \times 10^{-3}$	$-1.183 \times 10^{-3}$	$-6.018 \times 10^{-5}$
0.9133	0.0267	$7.027 \times 10^{-3}$	$1.553 \times 10^{-3}$	$-1.352 \times 10^{-3}$	$-4.999 \times 10^{-5}$
0.9200	0.0267	$6.889 \times 10^{-3}$	$1.465 \times 10^{-3}$	$-1.060 \times 10^{-3}$	$-1.000 \times 10^{-5}$
0.9267	0.0267	$7.113 \times 10^{-3}$	$1.710 \times 10^{-3}$	$-1.230 \times 10^{-3}$	$2.572 \times 10^{-5}$
0.9333	0.0267	$7.647 \times 10^{-3}$	$1.777 \times 10^{-3}$	$-1.304 \times 10^{-3}$	$1.609 \times 10^{-5}$
0.9400	0.0267	$7.709 \times 10^{-3}$	$1.685 \times 10^{-3}$	$-1.159 \times 10^{-3}$	$7.959 \times 10^{-6}$
0.9467	0.0267	$7.602 \times 10^{-3}$	$1.540 \times 10^{-3}$	$-1.012 \times 10^{-3}$	$1.503 \times 10^{-5}$
0.9533	0.0267	$7.432 \times 10^{-3}$	$1.488 \times 10^{-3}$	$-9.644 \times 10^{-4}$	$7.247 \times 10^{-6}$
0.9600	0.0267	$7.481 \times 10^{-3}$	$1.562 \times 10^{-3}$	$-9.790 \times 10^{-4}$	$1.131 \times 10^{-5}$
0.9667	0.0267	$7.522 \times 10^{-3}$	$1.647 \times 10^{-3}$	$-1.025 \times 10^{-3}$	$1.916 \times 10^{-5}$
0.9733	0.0267	$7.490 \times 10^{-3}$	$1.708 \times 10^{-3}$	$-9.764 \times 10^{-4}$	$5.393 \times 10^{-5}$
0.9800	0.0267	$7.474 \times 10^{-3}$	$1.642 \times 10^{-3}$	$-9.258 \times 10^{-4}$	$8.802 \times 10^{-5}$
0.9867	0.0267	$7.369 \times 10^{-3}$	$1.626 \times 10^{-3}$	$-7.147 \times 10^{-4}$	$5.890 \times 10^{-5}$
0.9933	0.0267	$7.401 \times 10^{-3}$	$1.724 \times 10^{-3}$	$-7.669 \times 10^{-4}$	$4.999 \times 10^{-5}$
1.0000	0.0267	$7.517 \times 10^{-3}$	$1.568 \times 10^{-3}$	$-6.329 \times 10^{-4}$	$6.637 \times 10^{-5}$
0.4667	0.0333	$3.457 \times 10^{-2}$	$9.775 \times 10^{-3}$	$1.539 \times 10^{-4}$	$4.714 \times 10^{-3}$
0.4733	0.0333	$3.754 \times 10^{-2}$	$8.694 \times 10^{-3}$	$7.003 \times 10^{-5}$	$4.630 \times 10^{-3}$
0.4800	0.0333	$3.823 \times 10^{-2}$	$8.425 \times 10^{-3}$	$4.165 \times 10^{-5}$	$4.606 \times 10^{-3}$
0.4867	0.0333	$4.228 \times 10^{-2}$	$6.643 \times 10^{-3}$	$3.566 \times 10^{-6}$	$4.317 \times 10^{-3}$
0.4933	0.0333	$4.321 \times 10^{-2}$	$6.247 \times 10^{-3}$	$-8.736 \times 10^{-6}$	$4.245 \times 10^{-3}$
0.5000	0.0333	$4.701 \times 10^{-2}$	$4.357 \times 10^{-3}$	$1.522 \times 10^{-4}$	$4.051 \times 10^{-3}$
0.5067	0.0333	$4.794 \times 10^{-2}$	$3.957 \times 10^{-3}$	$1.910 \times 10^{-4}$	$4.013 \times 10^{-3}$
0.5133	0.0333	$5.368 \times 10^{-2}$	$2.603 \times 10^{-3}$	$3.765 \times 10^{-4}$	$4.107 \times 10^{-3}$
0.5200	0.0333	$5.505 \times 10^{-2}$	$2.319 \times 10^{-3}$	$4.137 \times 10^{-4}$	$4.133 \times 10^{-3}$
0.5267	0.0333	$6.008 \times 10^{-2}$	$1.310 \times 10^{-3}$	$3.959 \times 10^{-4}$	$3.863 \times 10^{-3}$
0.5333	0.0333	$6.124 \times 10^{-2}$	$1.092 \times 10^{-3}$	$3.697 \times 10^{-4}$	$3.800 \times 10^{-3}$
0.5400	0.0333	$6.524 \times 10^{-2}$	$-1.192 \times 10^{-4}$	$6.441 \times 10^{-4}$	$3.386 \times 10^{-3}$
0.5467	0.0333	$6.619 \times 10^{-2}$	$-3.929 \times 10^{-4}$	$6.889 \times 10^{-4}$	$3.292 \times 10^{-3}$
0.5533	0.0333	$7.030 \times 10^{-2}$	$-1.299 \times 10^{-3}$	$6.592 \times 10^{-4}$	$3.140 \times 10^{-3}$
0.5600	0.0333	$7.133 \times 10^{-2}$	$-1.517 \times 10^{-3}$	$6.401 \times 10^{-4}$	$3.104 \times 10^{-3}$
0.5667	0.0333	$7.491 \times 10^{-2}$	$-1.887 \times 10^{-3}$	$6.029 \times 10^{-4}$	$2.932 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.0333	$7.647 \times 10^{-2}$	$-2.042 \times 10^{-3}$	$5.437 \times 10^{-4}$	$2.857 \times 10^{-3}$
0.5800	0.0333	$7.798 \times 10^{-2}$	$-2.205 \times 10^{-3}$	$7.086 \times 10^{-4}$	$2.755 \times 10^{-3}$
0.5867	0.0333	$8.048 \times 10^{-2}$	$-2.513 \times 10^{-3}$	$7.845 \times 10^{-4}$	$2.616 \times 10^{-3}$
0.5933	0.0333	$8.079 \times 10^{-2}$	$-2.578 \times 10^{-3}$	$7.997 \times 10^{-4}$	$2.606 \times 10^{-3}$
0.6000	0.0333	$8.324 \times 10^{-2}$	$-3.107 \times 10^{-3}$	$8.862 \times 10^{-4}$	$2.538 \times 10^{-3}$
0.6067	0.0333	$8.346 \times 10^{-2}$	$-3.152 \times 10^{-3}$	$8.856 \times 10^{-4}$	$2.538 \times 10^{-3}$
0.6133	0.0333	$8.537 \times 10^{-2}$	$-3.570 \times 10^{-3}$	$9.568 \times 10^{-4}$	$2.544 \times 10^{-3}$
0.6200	0.0333	$8.584 \times 10^{-2}$	$-3.827 \times 10^{-3}$	$9.661 \times 10^{-4}$	$2.616 \times 10^{-3}$
0.6267	0.0333	$8.679 \times 10^{-2}$	$-4.452 \times 10^{-3}$	$1.097 \times 10^{-3}$	$2.789 \times 10^{-3}$
0.6333	0.0333	$8.778 \times 10^{-2}$	$-5.421 \times 10^{-3}$	$1.227 \times 10^{-3}$	$3.053 \times 10^{-3}$
0.6400	0.0333	$8.853 \times 10^{-2}$	$-6.209 \times 10^{-3}$	$1.442 \times 10^{-3}$	$3.293 \times 10^{-3}$
0.6467	0.0333	$9.004 \times 10^{-2}$	$-7.642 \times 10^{-3}$	$1.853 \times 10^{-3}$	$3.787 \times 10^{-3}$
0.6533	0.0333	$9.249 \times 10^{-2}$	$-8.998 \times 10^{-3}$	$1.968 \times 10^{-3}$	$4.299 \times 10^{-3}$
0.6600	0.0333	$9.578 \times 10^{-2}$	$-1.096 \times 10^{-2}$	$2.340 \times 10^{-3}$	$4.857 \times 10^{-3}$
0.6667	0.0333	$1.002 \times 10^{-1}$	$-1.288 \times 10^{-2}$	$3.008 \times 10^{-3}$	$5.475 \times 10^{-3}$
0.6733	0.0333	$1.070 \times 10^{-1}$	$-1.460 \times 10^{-2}$	$3.597 \times 10^{-3}$	$6.253 \times 10^{-3}$
0.6800	0.0333	$1.173 \times 10^{-1}$	$-1.601 \times 10^{-2}$	$4.331 \times 10^{-3}$	$7.272 \times 10^{-3}$
0.6867	0.0333	$1.303 \times 10^{-1}$	$-1.670 \times 10^{-2}$	$4.803 \times 10^{-3}$	$8.387 \times 10^{-3}$
0.6933	0.0333	$1.440 \times 10^{-1}$	$-1.599 \times 10^{-2}$	$5.058 \times 10^{-3}$	$9.416 \times 10^{-3}$
0.7000	0.0333	$1.585 \times 10^{-1}$	$-1.397 \times 10^{-2}$	$5.444 \times 10^{-3}$	$1.041 \times 10^{-2}$
0.7067	0.0333	$1.717 \times 10^{-1}$	$-9.893 \times 10^{-3}$	$5.252 \times 10^{-3}$	$1.111 \times 10^{-2}$
0.7133	0.0333	$1.809 \times 10^{-1}$	$-3.310 \times 10^{-3}$	$4.267 \times 10^{-3}$	$1.137 \times 10^{-2}$
0.7200	0.0333	$1.841 \times 10^{-1}$	$3.930 \times 10^{-3}$	$3.457 \times 10^{-3}$	$1.095 \times 10^{-2}$
0.7267	0.0333	$1.793 \times 10^{-1}$	$1.019 \times 10^{-2}$	$1.784 \times 10^{-3}$	$1.008 \times 10^{-2}$
0.7333	0.0333	$1.688 \times 10^{-1}$	$1.461 \times 10^{-2}$	$1.305 \times 10^{-3}$	$8.927 \times 10^{-3}$
0.7400	0.0333	$1.543 \times 10^{-1}$	$1.830 \times 10^{-2}$	$6.618 \times 10^{-4}$	$7.495 \times 10^{-3}$
0.7467	0.0333	$1.379 \times 10^{-1}$	$1.954 \times 10^{-2}$	$-2.631 \times 10^{-5}$	$6.119 \times 10^{-3}$
0.7533	0.0333	$1.220 \times 10^{-1}$	$1.862 \times 10^{-2}$	$-3.812 \times 10^{-4}$	$4.840 \times 10^{-3}$
0.7600	0.0333	$1.102 \times 10^{-1}$	$1.714 \times 10^{-2}$	$7.746 \times 10^{-5}$	$3.841 \times 10^{-3}$
0.7667	0.0333	$1.016 \times 10^{-1}$	$1.450 \times 10^{-2}$	$2.412 \times 10^{-4}$	$3.073 \times 10^{-3}$
0.7733	0.0333	$9.673 \times 10^{-2}$	$1.293 \times 10^{-2}$	$9.336 \times 10^{-4}$	$2.606 \times 10^{-3}$
0.7800	0.0333	$9.329 \times 10^{-2}$	$1.186 \times 10^{-2}$	$1.564 \times 10^{-3}$	$2.280 \times 10^{-3}$
0.7867	0.0333	$8.908 \times 10^{-2}$	$1.098 \times 10^{-2}$	$1.728 \times 10^{-3}$	$1.784 \times 10^{-3}$
0.7933	0.0333	$8.005 \times 10^{-2}$	$1.128 \times 10^{-2}$	$1.059 \times 10^{-3}$	$1.357 \times 10^{-3}$
0.8000	0.0333	$7.083 \times 10^{-2}$	$1.070 \times 10^{-2}$	$8.417 \times 10^{-4}$	$9.974 \times 10^{-4}$
0.8067	0.0333	$5.913 \times 10^{-2}$	$1.005 \times 10^{-2}$	$4.285 \times 10^{-4}$	$6.062 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.0333	$4.502 \times 10^{-2}$	$7.992 \times 10^{-3}$	$-5.681 \times 10^{-6}$	$2.084 \times 10^{-4}$
0.8200	0.0333	$3.110 \times 10^{-2}$	$5.963 \times 10^{-3}$	$-3.527 \times 10^{-4}$	$3.402 \times 10^{-5}$
0.8267	0.0333	$1.989 \times 10^{-2}$	$3.921 \times 10^{-3}$	$-6.028 \times 10^{-4}$	$-1.123 \times 10^{-4}$
0.8333	0.0333	$1.294 \times 10^{-2}$	$3.049 \times 10^{-3}$	$-5.806 \times 10^{-4}$	$-7.990 \times 10^{-5}$
0.8400	0.0333	$9.900 \times 10^{-3}$	$2.501 \times 10^{-3}$	$-5.879 \times 10^{-4}$	$-6.771 \times 10^{-5}$
0.8467	0.0333	$8.266 \times 10^{-3}$	$2.130 \times 10^{-3}$	$-6.005 \times 10^{-4}$	$-1.108 \times 10^{-4}$
0.8533	0.0333	$7.435 \times 10^{-3}$	$1.825 \times 10^{-3}$	$-8.601 \times 10^{-4}$	$-7.816 \times 10^{-5}$
0.8600	0.0333	$6.728 \times 10^{-3}$	$1.805 \times 10^{-3}$	$-1.011 \times 10^{-3}$	$-7.729 \times 10^{-5}$
0.8667	0.0333	$6.954 \times 10^{-3}$	$1.794 \times 10^{-3}$	$-9.430 \times 10^{-4}$	$-1.136 \times 10^{-4}$
0.8733	0.0333	$6.878 \times 10^{-3}$	$1.608 \times 10^{-3}$	$-1.271 \times 10^{-3}$	$-9.756 \times 10^{-5}$
0.8800	0.0333	$7.286 \times 10^{-3}$	$1.678 \times 10^{-3}$	$-1.406 \times 10^{-3}$	$-7.947 \times 10^{-5}$
0.8867	0.0333	$7.575 \times 10^{-3}$	$1.833 \times 10^{-3}$	$-1.486 \times 10^{-3}$	$-5.526 \times 10^{-5}$
0.8933	0.0333	$8.012 \times 10^{-3}$	$1.818 \times 10^{-3}$	$-1.648 \times 10^{-3}$	$-2.994 \times 10^{-5}$
0.9000	0.0333	$7.649 \times 10^{-3}$	$2.044 \times 10^{-3}$	$-1.511 \times 10^{-3}$	$2.480 \times 10^{-5}$
0.9067	0.0333	$7.626 \times 10^{-3}$	$1.916 \times 10^{-3}$	$-1.346 \times 10^{-3}$	$-4.242 \times 10^{-5}$
0.9133	0.0333	$7.880 \times 10^{-3}$	$2.054 \times 10^{-3}$	$-1.705 \times 10^{-3}$	$-9.192 \times 10^{-6}$
0.9200	0.0333	$8.331 \times 10^{-3}$	$2.190 \times 10^{-3}$	$-1.455 \times 10^{-3}$	$1.528 \times 10^{-6}$
0.9267	0.0333	$8.345 \times 10^{-3}$	$1.938 \times 10^{-3}$	$-1.539 \times 10^{-3}$	$-4.346 \times 10^{-6}$
0.9333	0.0333	$8.020 \times 10^{-3}$	$1.916 \times 10^{-3}$	$-1.352 \times 10^{-3}$	$2.962 \times 10^{-5}$
0.9400	0.0333	$7.889 \times 10^{-3}$	$1.783 \times 10^{-3}$	$-1.252 \times 10^{-3}$	$1.743 \times 10^{-5}$
0.9467	0.0333	$7.976 \times 10^{-3}$	$1.893 \times 10^{-3}$	$-1.292 \times 10^{-3}$	$3.175 \times 10^{-5}$
0.9533	0.0333	$7.835 \times 10^{-3}$	$1.920 \times 10^{-3}$	$-1.388 \times 10^{-3}$	$6.460 \times 10^{-5}$
0.9600	0.0333	$7.659 \times 10^{-3}$	$1.867 \times 10^{-3}$	$-1.180 \times 10^{-3}$	$3.290 \times 10^{-5}$
0.9667	0.0333	$7.740 \times 10^{-3}$	$1.932 \times 10^{-3}$	$-1.152 \times 10^{-3}$	$3.980 \times 10^{-5}$
0.9733	0.0333	$7.822 \times 10^{-3}$	$2.003 \times 10^{-3}$	$-1.107 \times 10^{-3}$	$4.223 \times 10^{-5}$
0.9800	0.0333	$7.693 \times 10^{-3}$	$1.877 \times 10^{-3}$	$-1.034 \times 10^{-3}$	$6.668 \times 10^{-5}$
0.9867	0.0333	$7.521 \times 10^{-3}$	$1.839 \times 10^{-3}$	$-9.342 \times 10^{-4}$	$7.122 \times 10^{-5}$
0.9933	0.0333	$7.359 \times 10^{-3}$	$1.788 \times 10^{-3}$	$-7.913 \times 10^{-4}$	$5.477 \times 10^{-5}$
1.0000	0.0333	$7.422 \times 10^{-3}$	$1.987 \times 10^{-3}$	$-8.357 \times 10^{-4}$	$6.182 \times 10^{-5}$
0.4667	0.0400	$3.542 \times 10^{-2}$	$9.584 \times 10^{-3}$	$1.859 \times 10^{-4}$	$4.713 \times 10^{-3}$
0.4733	0.0400	$3.598 \times 10^{-2}$	$9.378 \times 10^{-3}$	$2.192 \times 10^{-4}$	$4.722 \times 10^{-3}$
0.4800	0.0400	$3.949 \times 10^{-2}$	$7.855 \times 10^{-3}$	$8.419 \times 10^{-5}$	$4.567 \times 10^{-3}$
0.4867	0.0400	$4.046 \times 10^{-2}$	$7.427 \times 10^{-3}$	$6.796 \times 10^{-5}$	$4.528 \times 10^{-3}$
0.4933	0.0400	$4.395 \times 10^{-2}$	$5.538 \times 10^{-3}$	$6.718 \times 10^{-5}$	$4.168 \times 10^{-3}$
0.5000	0.0400	$4.485 \times 10^{-2}$	$5.017 \times 10^{-3}$	$8.798 \times 10^{-5}$	$4.085 \times 10^{-3}$
0.5067	0.0400	$4.937 \times 10^{-2}$	$3.442 \times 10^{-3}$	$3.127 \times 10^{-4}$	$4.027 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.0400	$5.059 \times 10^{-2}$	$3.023 \times 10^{-3}$	$3.860 \times 10^{-4}$	$4.016 \times 10^{-3}$
0.5200	0.0400	$5.640 \times 10^{-2}$	$1.964 \times 10^{-3}$	$5.535 \times 10^{-4}$	$4.032 \times 10^{-3}$
0.5267	0.0400	$5.787 \times 10^{-2}$	$1.679 \times 10^{-3}$	$6.187 \times 10^{-4}$	$4.014 \times 10^{-3}$
0.5333	0.0400	$6.208 \times 10^{-2}$	$6.663 \times 10^{-4}$	$6.531 \times 10^{-4}$	$3.653 \times 10^{-3}$
0.5400	0.0400	$6.313 \times 10^{-2}$	$3.809 \times 10^{-4}$	$7.045 \times 10^{-4}$	$3.551 \times 10^{-3}$
0.5467	0.0400	$6.719 \times 10^{-2}$	$-6.806 \times 10^{-4}$	$7.791 \times 10^{-4}$	$3.250 \times 10^{-3}$
0.5533	0.0400	$6.822 \times 10^{-2}$	$-9.519 \times 10^{-4}$	$8.139 \times 10^{-4}$	$3.180 \times 10^{-3}$
0.5600	0.0400	$7.219 \times 10^{-2}$	$-1.611 \times 10^{-3}$	$7.614 \times 10^{-4}$	$3.057 \times 10^{-3}$
0.5667	0.0400	$7.320 \times 10^{-2}$	$-1.773 \times 10^{-3}$	$7.740 \times 10^{-4}$	$3.023 \times 10^{-3}$
0.5733	0.0400	$7.673 \times 10^{-2}$	$-2.041 \times 10^{-3}$	$8.594 \times 10^{-4}$	$2.803 \times 10^{-3}$
0.5800	0.0400	$7.803 \times 10^{-2}$	$-2.133 \times 10^{-3}$	$9.777 \times 10^{-4}$	$2.710 \times 10^{-3}$
0.5867	0.0400	$7.981 \times 10^{-2}$	$-2.431 \times 10^{-3}$	$9.417 \times 10^{-4}$	$2.637 \times 10^{-3}$
0.5933	0.0400	$8.138 \times 10^{-2}$	$-2.727 \times 10^{-3}$	$1.057 \times 10^{-3}$	$2.559 \times 10^{-3}$
0.6000	0.0400	$8.250 \times 10^{-2}$	$-2.953 \times 10^{-3}$	$9.935 \times 10^{-4}$	$2.543 \times 10^{-3}$
0.6067	0.0400	$8.379 \times 10^{-2}$	$-3.224 \times 10^{-3}$	$1.021 \times 10^{-3}$	$2.523 \times 10^{-3}$
0.6133	0.0400	$8.514 \times 10^{-2}$	$-3.521 \times 10^{-3}$	$1.013 \times 10^{-3}$	$2.545 \times 10^{-3}$
0.6200	0.0400	$8.590 \times 10^{-2}$	$-3.787 \times 10^{-3}$	$1.175 \times 10^{-3}$	$2.629 \times 10^{-3}$
0.6267	0.0400	$8.677 \times 10^{-2}$	$-4.428 \times 10^{-3}$	$1.147 \times 10^{-3}$	$2.790 \times 10^{-3}$
0.6333	0.0400	$8.758 \times 10^{-2}$	$-5.266 \times 10^{-3}$	$1.453 \times 10^{-3}$	$3.044 \times 10^{-3}$
0.6400	0.0400	$8.817 \times 10^{-2}$	$-6.011 \times 10^{-3}$	$1.556 \times 10^{-3}$	$3.229 \times 10^{-3}$
0.6467	0.0400	$8.991 \times 10^{-2}$	$-7.656 \times 10^{-3}$	$1.979 \times 10^{-3}$	$3.787 \times 10^{-3}$
0.6533	0.0400	$9.210 \times 10^{-2}$	$-8.995 \times 10^{-3}$	$2.321 \times 10^{-3}$	$4.267 \times 10^{-3}$
0.6600	0.0400	$9.443 \times 10^{-2}$	$-1.037 \times 10^{-2}$	$2.738 \times 10^{-3}$	$4.696 \times 10^{-3}$
0.6667	0.0400	$9.911 \times 10^{-2}$	$-1.257 \times 10^{-2}$	$3.317 \times 10^{-3}$	$5.364 \times 10^{-3}$
0.6733	0.0400	$1.064 \times 10^{-1}$	$-1.445 \times 10^{-2}$	$4.025 \times 10^{-3}$	$6.186 \times 10^{-3}$
0.6800	0.0400	$1.150 \times 10^{-1}$	$-1.558 \times 10^{-2}$	$4.864 \times 10^{-3}$	$6.977 \times 10^{-3}$
0.6867	0.0400	$1.253 \times 10^{-1}$	$-1.648 \times 10^{-2}$	$5.541 \times 10^{-3}$	$7.951 \times 10^{-3}$
0.6933	0.0400	$1.392 \times 10^{-1}$	$-1.661 \times 10^{-2}$	$6.295 \times 10^{-3}$	$9.024 \times 10^{-3}$
0.7000	0.0400	$1.550 \times 10^{-1}$	$-1.470 \times 10^{-2}$	$6.662 \times 10^{-3}$	$1.016 \times 10^{-2}$
0.7067	0.0400	$1.689 \times 10^{-1}$	$-1.088 \times 10^{-2}$	$6.462 \times 10^{-3}$	$1.099 \times 10^{-2}$
0.7133	0.0400	$1.790 \times 10^{-1}$	$-5.651 \times 10^{-3}$	$6.154 \times 10^{-3}$	$1.150 \times 10^{-2}$
0.7200	0.0400	$1.847 \times 10^{-1}$	$5.301 \times 10^{-4}$	$4.946 \times 10^{-3}$	$1.127 \times 10^{-2}$
0.7267	0.0400	$1.819 \times 10^{-1}$	$8.254 \times 10^{-3}$	$3.547 \times 10^{-3}$	$1.056 \times 10^{-2}$
0.7333	0.0400	$1.714 \times 10^{-1}$	$1.488 \times 10^{-2}$	$2.104 \times 10^{-3}$	$9.335 \times 10^{-3}$
0.7400	0.0400	$1.593 \times 10^{-1}$	$1.786 \times 10^{-2}$	$6.895 \times 10^{-4}$	$8.155 \times 10^{-3}$
0.7467	0.0400	$1.398 \times 10^{-1}$	$1.957 \times 10^{-2}$	$3.597 \times 10^{-5}$	$6.408 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.0400	$1.242 \times 10^{-1}$	$1.912 \times 10^{-2}$	$-1.918 \times 10^{-5}$	$5.074 \times 10^{-3}$
0.7600	0.0400	$1.100 \times 10^{-1}$	$1.751 \times 10^{-2}$	$8.944 \times 10^{-5}$	$3.960 \times 10^{-3}$
0.7667	0.0400	$1.035 \times 10^{-1}$	$1.641 \times 10^{-2}$	$5.999 \times 10^{-5}$	$3.402 \times 10^{-3}$
0.7733	0.0400	$9.602 \times 10^{-2}$	$1.309 \times 10^{-2}$	$8.886 \times 10^{-4}$	$2.662 \times 10^{-3}$
0.7800	0.0400	$9.084 \times 10^{-2}$	$1.201 \times 10^{-2}$	$1.666 \times 10^{-3}$	$2.321 \times 10^{-3}$
0.7867	0.0400	$8.768 \times 10^{-2}$	$1.114 \times 10^{-2}$	$1.939 \times 10^{-3}$	$1.878 \times 10^{-3}$
0.7933	0.0400	$8.221 \times 10^{-2}$	$1.102 \times 10^{-2}$	$2.026 \times 10^{-3}$	$1.618 \times 10^{-3}$
0.8000	0.0400	$7.402 \times 10^{-2}$	$1.112 \times 10^{-2}$	$1.308 \times 10^{-3}$	$1.327 \times 10^{-3}$
0.8067	0.0400	$6.405 \times 10^{-2}$	$1.082 \times 10^{-2}$	$7.704 \times 10^{-4}$	$8.305 \times 10^{-4}$
0.8133	0.0400	$5.266 \times 10^{-2}$	$9.855 \times 10^{-3}$	$-8.402 \times 10^{-5}$	$5.055 \times 10^{-4}$
0.8200	0.0400	$4.084 \times 10^{-2}$	$8.150 \times 10^{-3}$	$-7.332 \times 10^{-4}$	$2.242 \times 10^{-4}$
0.8267	0.0400	$3.143 \times 10^{-2}$	$6.917 \times 10^{-3}$	$-1.073 \times 10^{-3}$	$7.401 \times 10^{-5}$
0.8333	0.0400	$2.419 \times 10^{-2}$	$5.330 \times 10^{-3}$	$-9.593 \times 10^{-4}$	$-2.485 \times 10^{-6}$
0.8400	0.0400	$1.851 \times 10^{-2}$	$4.447 \times 10^{-3}$	$-1.231 \times 10^{-3}$	$-2.585 \times 10^{-5}$
0.8467	0.0400	$1.559 \times 10^{-2}$	$3.697 \times 10^{-3}$	$-1.627 \times 10^{-3}$	$-6.693 \times 10^{-5}$
0.8533	0.0400	$1.339 \times 10^{-2}$	$3.300 \times 10^{-3}$	$-1.520 \times 10^{-3}$	$-6.821 \times 10^{-5}$
0.8600	0.0400	$1.187 \times 10^{-2}$	$3.025 \times 10^{-3}$	$-1.749 \times 10^{-3}$	$-3.869 \times 10^{-5}$
0.8667	0.0400	$1.077 \times 10^{-2}$	$2.619 \times 10^{-3}$	$-1.757 \times 10^{-3}$	$-5.803 \times 10^{-5}$
0.8733	0.0400	$1.018 \times 10^{-2}$	$2.415 \times 10^{-3}$	$-1.796 \times 10^{-3}$	$-8.058 \times 10^{-5}$
0.8800	0.0400	$1.036 \times 10^{-2}$	$2.641 \times 10^{-3}$	$-1.823 \times 10^{-3}$	$-3.027 \times 10^{-5}$
0.8867	0.0400	$9.729 \times 10^{-3}$	$2.469 \times 10^{-3}$	$-1.898 \times 10^{-3}$	$-3.411 \times 10^{-5}$
0.8933	0.0400	$9.517 \times 10^{-3}$	$2.312 \times 10^{-3}$	$-2.019 \times 10^{-3}$	$-2.851 \times 10^{-6}$
0.9000	0.0400	$8.653 \times 10^{-3}$	$2.552 \times 10^{-3}$	$-1.806 \times 10^{-3}$	$2.834 \times 10^{-5}$
0.9067	0.0400	$8.551 \times 10^{-3}$	$2.559 \times 10^{-3}$	$-1.774 \times 10^{-3}$	$1.246 \times 10^{-5}$
0.9133	0.0400	$8.861 \times 10^{-3}$	$2.414 \times 10^{-3}$	$-1.951 \times 10^{-3}$	$4.143 \times 10^{-5}$
0.9200	0.0400	$8.783 \times 10^{-3}$	$2.435 \times 10^{-3}$	$-1.945 \times 10^{-3}$	$6.529 \times 10^{-5}$
0.9267	0.0400	$8.531 \times 10^{-3}$	$2.183 \times 10^{-3}$	$-1.828 \times 10^{-3}$	$3.620 \times 10^{-5}$
0.9333	0.0400	$8.869 \times 10^{-3}$	$2.391 \times 10^{-3}$	$-1.836 \times 10^{-3}$	$5.595 \times 10^{-5}$
0.9400	0.0400	$8.603 \times 10^{-3}$	$2.296 \times 10^{-3}$	$-1.729 \times 10^{-3}$	$5.774 \times 10^{-5}$
0.9467	0.0400	$8.089 \times 10^{-3}$	$2.171 \times 10^{-3}$	$-1.606 \times 10^{-3}$	$5.796 \times 10^{-5}$
0.9533	0.0400	$8.066 \times 10^{-3}$	$2.133 \times 10^{-3}$	$-1.490 \times 10^{-3}$	$6.912 \times 10^{-5}$
0.9600	0.0400	$8.186 \times 10^{-3}$	$2.186 \times 10^{-3}$	$-1.207 \times 10^{-3}$	$7.786 \times 10^{-5}$
0.9667	0.0400	$7.899 \times 10^{-3}$	$2.159 \times 10^{-3}$	$-1.153 \times 10^{-3}$	$8.906 \times 10^{-5}$
0.9733	0.0400	$7.872 \times 10^{-3}$	$2.180 \times 10^{-3}$	$-1.153 \times 10^{-3}$	$8.363 \times 10^{-5}$
0.9800	0.0400	$7.750 \times 10^{-3}$	$2.086 \times 10^{-3}$	$-1.159 \times 10^{-3}$	$7.895 \times 10^{-5}$
0.9867	0.0400	$7.378 \times 10^{-3}$	$1.911 \times 10^{-3}$	$-9.269 \times 10^{-4}$	$8.957 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.0400	$7.091 \times 10^{-3}$	$1.970 \times 10^{-3}$	$-8.135 \times 10^{-4}$	$7.483 \times 10^{-5}$
1.0000	0.0400	$7.251 \times 10^{-3}$	$2.026 \times 10^{-3}$	$-8.680 \times 10^{-4}$	$8.478 \times 10^{-5}$
0.4667	0.0467	$3.527 \times 10^{-2}$	$9.597 \times 10^{-3}$	$2.103 \times 10^{-4}$	$4.675 \times 10^{-3}$
0.4733	0.0467	$3.604 \times 10^{-2}$	$9.346 \times 10^{-3}$	$2.182 \times 10^{-4}$	$4.711 \times 10^{-3}$
0.4800	0.0467	$3.919 \times 10^{-2}$	$7.995 \times 10^{-3}$	$1.048 \times 10^{-4}$	$4.572 \times 10^{-3}$
0.4867	0.0467	$4.050 \times 10^{-2}$	$7.401 \times 10^{-3}$	$6.801 \times 10^{-5}$	$4.520 \times 10^{-3}$
0.4933	0.0467	$4.364 \times 10^{-2}$	$5.696 \times 10^{-3}$	$6.146 \times 10^{-5}$	$4.200 \times 10^{-3}$
0.5000	0.0467	$4.491 \times 10^{-2}$	$4.996 \times 10^{-3}$	$9.088 \times 10^{-5}$	$4.088 \times 10^{-3}$
0.5067	0.0467	$4.891 \times 10^{-2}$	$3.550 \times 10^{-3}$	$2.879 \times 10^{-4}$	$4.028 \times 10^{-3}$
0.5133	0.0467	$5.065 \times 10^{-2}$	$3.001 \times 10^{-3}$	$3.861 \times 10^{-4}$	$4.014 \times 10^{-3}$
0.5200	0.0467	$5.578 \times 10^{-2}$	$2.008 \times 10^{-3}$	$5.470 \times 10^{-4}$	$4.016 \times 10^{-3}$
0.5267	0.0467	$5.787 \times 10^{-2}$	$1.649 \times 10^{-3}$	$6.358 \times 10^{-4}$	$4.003 \times 10^{-3}$
0.5333	0.0467	$6.160 \times 10^{-2}$	$7.084 \times 10^{-4}$	$7.299 \times 10^{-4}$	$3.685 \times 10^{-3}$
0.5400	0.0467	$6.317 \times 10^{-2}$	$3.568 \times 10^{-4}$	$7.217 \times 10^{-4}$	$3.547 \times 10^{-3}$
0.5467	0.0467	$6.681 \times 10^{-2}$	$-6.004 \times 10^{-4}$	$8.061 \times 10^{-4}$	$3.274 \times 10^{-3}$
0.5533	0.0467	$6.828 \times 10^{-2}$	$-9.598 \times 10^{-4}$	$8.239 \times 10^{-4}$	$3.176 \times 10^{-3}$
0.5600	0.0467	$7.183 \times 10^{-2}$	$-1.554 \times 10^{-3}$	$8.168 \times 10^{-4}$	$3.052 \times 10^{-3}$
0.5667	0.0467	$7.326 \times 10^{-2}$	$-1.770 \times 10^{-3}$	$8.016 \times 10^{-4}$	$3.015 \times 10^{-3}$
0.5733	0.0467	$7.640 \times 10^{-2}$	$-1.995 \times 10^{-3}$	$9.787 \times 10^{-4}$	$2.816 \times 10^{-3}$
0.5800	0.0467	$7.803 \times 10^{-2}$	$-2.133 \times 10^{-3}$	$9.967 \times 10^{-4}$	$2.710 \times 10^{-3}$
0.5867	0.0467	$7.961 \times 10^{-2}$	$-2.382 \times 10^{-3}$	$1.131 \times 10^{-3}$	$2.638 \times 10^{-3}$
0.5933	0.0467	$8.141 \times 10^{-2}$	$-2.734 \times 10^{-3}$	$1.094 \times 10^{-3}$	$2.553 \times 10^{-3}$
0.6000	0.0467	$8.199 \times 10^{-2}$	$-2.831 \times 10^{-3}$	$1.123 \times 10^{-3}$	$2.543 \times 10^{-3}$
0.6067	0.0467	$8.390 \times 10^{-2}$	$-3.252 \times 10^{-3}$	$1.088 \times 10^{-3}$	$2.505 \times 10^{-3}$
0.6133	0.0467	$8.435 \times 10^{-2}$	$-3.329 \times 10^{-3}$	$1.171 \times 10^{-3}$	$2.526 \times 10^{-3}$
0.6200	0.0467	$8.603 \times 10^{-2}$	$-3.687 \times 10^{-3}$	$1.377 \times 10^{-3}$	$2.627 \times 10^{-3}$
0.6267	0.0467	$8.669 \times 10^{-2}$	$-4.254 \times 10^{-3}$	$1.533 \times 10^{-3}$	$2.808 \times 10^{-3}$
0.6333	0.0467	$8.725 \times 10^{-2}$	$-4.661 \times 10^{-3}$	$1.601 \times 10^{-3}$	$2.954 \times 10^{-3}$
0.6400	0.0467	$8.843 \times 10^{-2}$	$-6.485 \times 10^{-3}$	$1.870 \times 10^{-3}$	$3.362 \times 10^{-3}$
0.6467	0.0467	$8.922 \times 10^{-2}$	$-7.139 \times 10^{-3}$	$2.126 \times 10^{-3}$	$3.596 \times 10^{-3}$
0.6533	0.0467	$9.104 \times 10^{-2}$	$-8.530 \times 10^{-3}$	$2.481 \times 10^{-3}$	$4.087 \times 10^{-3}$
0.6600	0.0467	$9.442 \times 10^{-2}$	$-1.062 \times 10^{-2}$	$3.198 \times 10^{-3}$	$4.734 \times 10^{-3}$
0.6667	0.0467	$9.882 \times 10^{-2}$	$-1.231 \times 10^{-2}$	$3.942 \times 10^{-3}$	$5.336 \times 10^{-3}$
0.6733	0.0467	$1.039 \times 10^{-1}$	$-1.381 \times 10^{-2}$	$4.436 \times 10^{-3}$	$5.946 \times 10^{-3}$
0.6800	0.0467	$1.141 \times 10^{-1}$	$-1.532 \times 10^{-2}$	$5.211 \times 10^{-3}$	$6.898 \times 10^{-3}$
0.6867	0.0467	$1.271 \times 10^{-1}$	$-1.630 \times 10^{-2}$	$6.407 \times 10^{-3}$	$7.999 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.0467	$1.398 \times 10^{-1}$	$-1.611 \times 10^{-2}$	$7.121 \times 10^{-3}$	$9.111 \times 10^{-3}$
0.7000	0.0467	$1.526 \times 10^{-1}$	$-1.446 \times 10^{-2}$	$7.414 \times 10^{-3}$	$1.014 \times 10^{-2}$
0.7067	0.0467	$1.658 \times 10^{-1}$	$-1.114 \times 10^{-2}$	$7.636 \times 10^{-3}$	$1.097 \times 10^{-2}$
0.7133	0.0467	$1.777 \times 10^{-1}$	$-6.281 \times 10^{-3}$	$7.704 \times 10^{-3}$	$1.141 \times 10^{-2}$
0.7200	0.0467	$1.828 \times 10^{-1}$	$-6.926 \times 10^{-5}$	$6.706 \times 10^{-3}$	$1.140 \times 10^{-2}$
0.7267	0.0467	$1.834 \times 10^{-1}$	$6.096 \times 10^{-3}$	$5.374 \times 10^{-3}$	$1.089 \times 10^{-2}$
0.7333	0.0467	$1.763 \times 10^{-1}$	$1.296 \times 10^{-2}$	$3.579 \times 10^{-3}$	$9.703 \times 10^{-3}$
0.7400	0.0467	$1.605 \times 10^{-1}$	$1.803 \times 10^{-2}$	$1.464 \times 10^{-3}$	$8.183 \times 10^{-3}$
0.7467	0.0467	$1.456 \times 10^{-1}$	$1.983 \times 10^{-2}$	$3.952 \times 10^{-4}$	$6.899 \times 10^{-3}$
0.7533	0.0467	$1.251 \times 10^{-1}$	$2.021 \times 10^{-2}$	$3.290 \times 10^{-4}$	$5.233 \times 10^{-3}$
0.7600	0.0467	$1.134 \times 10^{-1}$	$1.872 \times 10^{-2}$	$9.235 \times 10^{-5}$	$4.367 \times 10^{-3}$
0.7667	0.0467	$1.023 \times 10^{-1}$	$1.659 \times 10^{-2}$	$2.530 \times 10^{-4}$	$3.433 \times 10^{-3}$
0.7733	0.0467	$9.561 \times 10^{-2}$	$1.461 \times 10^{-2}$	$4.222 \times 10^{-4}$	$2.799 \times 10^{-3}$
0.7800	0.0467	$8.949 \times 10^{-2}$	$1.225 \times 10^{-2}$	$1.405 \times 10^{-3}$	$2.250 \times 10^{-3}$
0.7867	0.0467	$8.545 \times 10^{-2}$	$1.209 \times 10^{-2}$	$1.995 \times 10^{-3}$	$2.100 \times 10^{-3}$
0.7933	0.0467	$8.080 \times 10^{-2}$	$1.165 \times 10^{-2}$	$2.059 \times 10^{-3}$	$1.800 \times 10^{-3}$
0.8000	0.0467	$7.478 \times 10^{-2}$	$1.121 \times 10^{-2}$	$1.853 \times 10^{-3}$	$1.398 \times 10^{-3}$
0.8067	0.0467	$6.598 \times 10^{-2}$	$1.172 \times 10^{-2}$	$9.997 \times 10^{-4}$	$1.116 \times 10^{-3}$
0.8133	0.0467	$5.695 \times 10^{-2}$	$1.055 \times 10^{-2}$	$4.559 \times 10^{-4}$	$8.369 \times 10^{-4}$
0.8200	0.0467	$4.721 \times 10^{-2}$	$9.592 \times 10^{-3}$	$-2.117 \times 10^{-4}$	$4.176 \times 10^{-4}$
0.8267	0.0467	$3.942 \times 10^{-2}$	$8.729 \times 10^{-3}$	$-1.134 \times 10^{-3}$	$3.157 \times 10^{-4}$
0.8333	0.0467	$3.145 \times 10^{-2}$	$6.946 \times 10^{-3}$	$-1.379 \times 10^{-3}$	$2.375 \times 10^{-4}$
0.8400	0.0467	$2.519 \times 10^{-2}$	$5.988 \times 10^{-3}$	$-1.633 \times 10^{-3}$	$6.646 \times 10^{-5}$
0.8467	0.0467	$2.202 \times 10^{-2}$	$5.391 \times 10^{-3}$	$-1.509 \times 10^{-3}$	$3.278 \times 10^{-5}$
0.8533	0.0467	$1.884 \times 10^{-2}$	$4.670 \times 10^{-3}$	$-2.025 \times 10^{-3}$	$-7.121 \times 10^{-6}$
0.8600	0.0467	$1.664 \times 10^{-2}$	$4.290 \times 10^{-3}$	$-2.179 \times 10^{-3}$	$4.353 \times 10^{-5}$
0.8667	0.0467	$1.494 \times 10^{-2}$	$3.799 \times 10^{-3}$	$-2.075 \times 10^{-3}$	$1.322 \times 10^{-5}$
0.8733	0.0467	$1.385 \times 10^{-2}$	$3.532 \times 10^{-3}$	$-2.204 \times 10^{-3}$	$3.035 \times 10^{-5}$
0.8800	0.0467	$1.271 \times 10^{-2}$	$3.182 \times 10^{-3}$	$-2.258 \times 10^{-3}$	$8.638 \times 10^{-6}$
0.8867	0.0467	$1.179 \times 10^{-2}$	$3.133 \times 10^{-3}$	$-2.177 \times 10^{-3}$	$-4.238 \times 10^{-6}$
0.8933	0.0467	$1.154 \times 10^{-2}$	$3.103 \times 10^{-3}$	$-2.308 \times 10^{-3}$	$2.604 \times 10^{-5}$
0.9000	0.0467	$1.066 \times 10^{-2}$	$3.020 \times 10^{-3}$	$-2.218 \times 10^{-3}$	$5.222 \times 10^{-5}$
0.9067	0.0467	$9.782 \times 10^{-3}$	$2.924 \times 10^{-3}$	$-1.946 \times 10^{-3}$	$4.746 \times 10^{-5}$
0.9133	0.0467	$1.009 \times 10^{-2}$	$2.983 \times 10^{-3}$	$-1.906 \times 10^{-3}$	$5.281 \times 10^{-5}$
0.9200	0.0467	$9.741 \times 10^{-3}$	$2.745 \times 10^{-3}$	$-2.193 \times 10^{-3}$	$4.862 \times 10^{-5}$
0.9267	0.0467	$9.626 \times 10^{-3}$	$2.805 \times 10^{-3}$	$-2.015 \times 10^{-3}$	$7.942 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.0467	$9.467 \times 10^{-3}$	$2.780 \times 10^{-3}$	$-2.015 \times 10^{-3}$	$1.162 \times 10^{-4}$
0.9400	0.0467	$9.204 \times 10^{-3}$	$2.719 \times 10^{-3}$	$-1.906 \times 10^{-3}$	$1.019 \times 10^{-4}$
0.9467	0.0467	$8.744 \times 10^{-3}$	$2.510 \times 10^{-3}$	$-1.694 \times 10^{-3}$	$1.066 \times 10^{-4}$
0.9533	0.0467	$8.665 \times 10^{-3}$	$2.488 \times 10^{-3}$	$-1.736 \times 10^{-3}$	$1.431 \times 10^{-4}$
0.9600	0.0467	$8.468 \times 10^{-3}$	$2.359 \times 10^{-3}$	$-1.617 \times 10^{-3}$	$1.122 \times 10^{-4}$
0.9667	0.0467	$8.199 \times 10^{-3}$	$2.308 \times 10^{-3}$	$-1.455 \times 10^{-3}$	$9.363 \times 10^{-5}$
0.9733	0.0467	$8.077 \times 10^{-3}$	$2.328 \times 10^{-3}$	$-1.332 \times 10^{-3}$	$1.225 \times 10^{-4}$
0.9800	0.0467	$7.793 \times 10^{-3}$	$2.257 \times 10^{-3}$	$-1.253 \times 10^{-3}$	$1.309 \times 10^{-4}$
0.9867	0.0467	$7.573 \times 10^{-3}$	$2.222 \times 10^{-3}$	$-1.121 \times 10^{-3}$	$1.060 \times 10^{-4}$
0.9933	0.0467	$7.447 \times 10^{-3}$	$2.184 \times 10^{-3}$	$-1.051 \times 10^{-3}$	$9.833 \times 10^{-5}$
1.0000	0.0467	$7.375 \times 10^{-3}$	$2.145 \times 10^{-3}$	$-1.011 \times 10^{-3}$	$9.737 \times 10^{-5}$
0.4667	0.0533	$3.438 \times 10^{-2}$	$9.708 \times 10^{-3}$	$2.869 \times 10^{-4}$	$4.531 \times 10^{-3}$
0.4733	0.0533	$3.712 \times 10^{-2}$	$8.895 \times 10^{-3}$	$1.614 \times 10^{-4}$	$4.608 \times 10^{-3}$
0.4800	0.0533	$3.760 \times 10^{-2}$	$8.743 \times 10^{-3}$	$1.451 \times 10^{-4}$	$4.609 \times 10^{-3}$
0.4867	0.0533	$4.165 \times 10^{-2}$	$6.836 \times 10^{-3}$	$1.085 \times 10^{-5}$	$4.377 \times 10^{-3}$
0.4933	0.0533	$4.232 \times 10^{-2}$	$6.498 \times 10^{-3}$	$-2.136 \times 10^{-5}$	$4.326 \times 10^{-3}$
0.5000	0.0533	$4.615 \times 10^{-2}$	$4.462 \times 10^{-3}$	$1.234 \times 10^{-4}$	$4.068 \times 10^{-3}$
0.5067	0.0533	$4.677 \times 10^{-2}$	$4.099 \times 10^{-3}$	$1.366 \times 10^{-4}$	$4.018 \times 10^{-3}$
0.5133	0.0533	$5.232 \times 10^{-2}$	$2.549 \times 10^{-3}$	$3.781 \times 10^{-4}$	$4.013 \times 10^{-3}$
0.5200	0.0533	$5.323 \times 10^{-2}$	$2.280 \times 10^{-3}$	$4.046 \times 10^{-4}$	$4.010 \times 10^{-3}$
0.5267	0.0533	$5.889 \times 10^{-2}$	$1.197 \times 10^{-3}$	$8.208 \times 10^{-4}$	$3.889 \times 10^{-3}$
0.5333	0.0533	$5.981 \times 10^{-2}$	$1.007 \times 10^{-3}$	$8.921 \times 10^{-4}$	$3.867 \times 10^{-3}$
0.5400	0.0533	$6.444 \times 10^{-2}$	$-4.465 \times 10^{-5}$	$8.194 \times 10^{-4}$	$3.435 \times 10^{-3}$
0.5467	0.0533	$6.522 \times 10^{-2}$	$-2.274 \times 10^{-4}$	$8.118 \times 10^{-4}$	$3.364 \times 10^{-3}$
0.5533	0.0533	$6.969 \times 10^{-2}$	$-1.212 \times 10^{-3}$	$8.828 \times 10^{-4}$	$3.090 \times 10^{-3}$
0.5600	0.0533	$7.046 \times 10^{-2}$	$-1.378 \times 10^{-3}$	$8.908 \times 10^{-4}$	$3.041 \times 10^{-3}$
0.5667	0.0533	$7.453 \times 10^{-2}$	$-1.799 \times 10^{-3}$	$1.053 \times 10^{-3}$	$2.920 \times 10^{-3}$
0.5733	0.0533	$7.531 \times 10^{-2}$	$-1.875 \times 10^{-3}$	$1.090 \times 10^{-3}$	$2.893 \times 10^{-3}$
0.5800	0.0533	$7.836 \times 10^{-2}$	$-2.186 \times 10^{-3}$	$1.243 \times 10^{-3}$	$2.706 \times 10^{-3}$
0.5867	0.0533	$7.954 \times 10^{-2}$	$-2.300 \times 10^{-3}$	$1.343 \times 10^{-3}$	$2.634 \times 10^{-3}$
0.5933	0.0533	$8.087 \times 10^{-2}$	$-2.555 \times 10^{-3}$	$1.286 \times 10^{-3}$	$2.587 \times 10^{-3}$
0.6000	0.0533	$8.259 \times 10^{-2}$	$-2.808 \times 10^{-3}$	$1.368 \times 10^{-3}$	$2.525 \times 10^{-3}$
0.6067	0.0533	$8.321 \times 10^{-2}$	$-2.968 \times 10^{-3}$	$1.338 \times 10^{-3}$	$2.515 \times 10^{-3}$
0.6133	0.0533	$8.459 \times 10^{-2}$	$-3.206 \times 10^{-3}$	$1.519 \times 10^{-3}$	$2.483 \times 10^{-3}$
0.6200	0.0533	$8.541 \times 10^{-2}$	$-3.557 \times 10^{-3}$	$1.591 \times 10^{-3}$	$2.583 \times 10^{-3}$
0.6267	0.0533	$8.633 \times 10^{-2}$	$-4.022 \times 10^{-3}$	$1.899 \times 10^{-3}$	$2.710 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.0533	$8.717 \times 10^{-2}$	$-5.297 \times 10^{-3}$	$2.032 \times 10^{-3}$	$3.068 \times 10^{-3}$
0.6400	0.0533	$8.739 \times 10^{-2}$	$-5.671 \times 10^{-3}$	$2.136 \times 10^{-3}$	$3.168 \times 10^{-3}$
0.6467	0.0533	$8.906 \times 10^{-2}$	$-7.180 \times 10^{-3}$	$2.668 \times 10^{-3}$	$3.648 \times 10^{-3}$
0.6533	0.0533	$9.139 \times 10^{-2}$	$-8.766 \times 10^{-3}$	$3.230 \times 10^{-3}$	$4.171 \times 10^{-3}$
0.6600	0.0533	$9.241 \times 10^{-2}$	$-9.384 \times 10^{-3}$	$3.481 \times 10^{-3}$	$4.378 \times 10^{-3}$
0.6667	0.0533	$9.669 \times 10^{-2}$	$-1.129 \times 10^{-2}$	$4.131 \times 10^{-3}$	$5.044 \times 10^{-3}$
0.6733	0.0533	$1.032 \times 10^{-1}$	$-1.355 \times 10^{-2}$	$4.843 \times 10^{-3}$	$5.922 \times 10^{-3}$
0.6800	0.0533	$1.099 \times 10^{-1}$	$-1.465 \times 10^{-2}$	$5.826 \times 10^{-3}$	$6.575 \times 10^{-3}$
0.6867	0.0533	$1.195 \times 10^{-1}$	$-1.573 \times 10^{-2}$	$6.705 \times 10^{-3}$	$7.367 \times 10^{-3}$
0.6933	0.0533	$1.339 \times 10^{-1}$	$-1.617 \times 10^{-2}$	$7.650 \times 10^{-3}$	$8.509 \times 10^{-3}$
0.7000	0.0533	$1.496 \times 10^{-1}$	$-1.515 \times 10^{-2}$	$8.246 \times 10^{-3}$	$9.965 \times 10^{-3}$
0.7067	0.0533	$1.637 \times 10^{-1}$	$-1.146 \times 10^{-2}$	$8.710 \times 10^{-3}$	$1.085 \times 10^{-2}$
0.7133	0.0533	$1.754 \times 10^{-1}$	$-6.467 \times 10^{-3}$	$8.638 \times 10^{-3}$	$1.124 \times 10^{-2}$
0.7200	0.0533	$1.828 \times 10^{-1}$	$4.336 \times 10^{-4}$	$7.588 \times 10^{-3}$	$1.130 \times 10^{-2}$
0.7267	0.0533	$1.830 \times 10^{-1}$	$7.189 \times 10^{-3}$	$5.982 \times 10^{-3}$	$1.086 \times 10^{-2}$
0.7333	0.0533	$1.763 \times 10^{-1}$	$1.245 \times 10^{-2}$	$4.628 \times 10^{-3}$	$9.897 \times 10^{-3}$
0.7400	0.0533	$1.651 \times 10^{-1}$	$1.690 \times 10^{-2}$	$2.945 \times 10^{-3}$	$8.821 \times 10^{-3}$
0.7467	0.0533	$1.460 \times 10^{-1}$	$1.997 \times 10^{-2}$	$3.480 \times 10^{-4}$	$7.019 \times 10^{-3}$
0.7533	0.0533	$1.309 \times 10^{-1}$	$2.037 \times 10^{-2}$	$-9.653 \times 10^{-5}$	$5.850 \times 10^{-3}$
0.7600	0.0533	$1.137 \times 10^{-1}$	$1.911 \times 10^{-2}$	$-3.437 \times 10^{-4}$	$4.460 \times 10^{-3}$
0.7667	0.0533	$1.041 \times 10^{-1}$	$1.772 \times 10^{-2}$	$8.852 \times 10^{-5}$	$3.815 \times 10^{-3}$
0.7733	0.0533	$9.646 \times 10^{-2}$	$1.565 \times 10^{-2}$	$-6.900 \times 10^{-5}$	$3.154 \times 10^{-3}$
0.7800	0.0533	$8.976 \times 10^{-2}$	$1.369 \times 10^{-2}$	$9.087 \times 10^{-4}$	$2.467 \times 10^{-3}$
0.7867	0.0533	$8.451 \times 10^{-2}$	$1.257 \times 10^{-2}$	$1.665 \times 10^{-3}$	$2.031 \times 10^{-3}$
0.7933	0.0533	$7.936 \times 10^{-2}$	$1.211 \times 10^{-2}$	$1.881 \times 10^{-3}$	$2.005 \times 10^{-3}$
0.8000	0.0533	$7.443 \times 10^{-2}$	$1.182 \times 10^{-2}$	$1.824 \times 10^{-3}$	$1.674 \times 10^{-3}$
0.8067	0.0533	$6.762 \times 10^{-2}$	$1.169 \times 10^{-2}$	$1.248 \times 10^{-3}$	$1.305 \times 10^{-3}$
0.8133	0.0533	$5.944 \times 10^{-2}$	$1.128 \times 10^{-2}$	$5.252 \times 10^{-4}$	$9.765 \times 10^{-4}$
0.8200	0.0533	$5.086 \times 10^{-2}$	$1.014 \times 10^{-2}$	$-1.984 \times 10^{-4}$	$7.212 \times 10^{-4}$
0.8267	0.0533	$4.340 \times 10^{-2}$	$9.527 \times 10^{-3}$	$-1.060 \times 10^{-3}$	$6.742 \times 10^{-4}$
0.8333	0.0533	$3.775 \times 10^{-2}$	$8.528 \times 10^{-3}$	$-1.601 \times 10^{-3}$	$3.017 \times 10^{-4}$
0.8400	0.0533	$3.058 \times 10^{-2}$	$7.674 \times 10^{-3}$	$-1.862 \times 10^{-3}$	$2.895 \times 10^{-4}$
0.8467	0.0533	$2.758 \times 10^{-2}$	$6.749 \times 10^{-3}$	$-2.198 \times 10^{-3}$	$1.858 \times 10^{-4}$
0.8533	0.0533	$2.339 \times 10^{-2}$	$5.819 \times 10^{-3}$	$-2.240 \times 10^{-3}$	$8.081 \times 10^{-5}$
0.8600	0.0533	$2.066 \times 10^{-2}$	$5.386 \times 10^{-3}$	$-2.246 \times 10^{-3}$	$1.251 \times 10^{-4}$
0.8667	0.0533	$1.862 \times 10^{-2}$	$4.886 \times 10^{-3}$	$-2.309 \times 10^{-3}$	$7.854 \times 10^{-5}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.0533	$1.738 \times 10^{-2}$	$4.625 \times 10^{-3}$	$-2.548 \times 10^{-3}$	$8.448 \times 10^{-5}$
0.8800	0.0533	$1.513 \times 10^{-2}$	$3.983 \times 10^{-3}$	$-2.552 \times 10^{-3}$	$8.121 \times 10^{-5}$
0.8867	0.0533	$1.418 \times 10^{-2}$	$3.964 \times 10^{-3}$	$-2.363 \times 10^{-3}$	$1.119 \times 10^{-4}$
0.8933	0.0533	$1.328 \times 10^{-2}$	$3.958 \times 10^{-3}$	$-2.300 \times 10^{-3}$	$8.207 \times 10^{-5}$
0.9000	0.0533	$1.233 \times 10^{-2}$	$3.722 \times 10^{-3}$	$-2.457 \times 10^{-3}$	$1.379 \times 10^{-4}$
0.9067	0.0533	$1.154 \times 10^{-2}$	$3.650 \times 10^{-3}$	$-2.228 \times 10^{-3}$	$1.242 \times 10^{-4}$
0.9133	0.0533	$1.114 \times 10^{-2}$	$3.321 \times 10^{-3}$	$-1.899 \times 10^{-3}$	$7.496 \times 10^{-5}$
0.9200	0.0533	$1.078 \times 10^{-2}$	$3.336 \times 10^{-3}$	$-2.278 \times 10^{-3}$	$1.087 \times 10^{-4}$
0.9267	0.0533	$1.055 \times 10^{-2}$	$3.259 \times 10^{-3}$	$-2.236 \times 10^{-3}$	$1.443 \times 10^{-4}$
0.9333	0.0533	$9.972 \times 10^{-3}$	$3.068 \times 10^{-3}$	$-1.931 \times 10^{-3}$	$1.528 \times 10^{-4}$
0.9400	0.0533	$9.777 \times 10^{-3}$	$2.966 \times 10^{-3}$	$-1.980 \times 10^{-3}$	$1.431 \times 10^{-4}$
0.9467	0.0533	$9.508 \times 10^{-3}$	$2.852 \times 10^{-3}$	$-1.902 \times 10^{-3}$	$1.568 \times 10^{-4}$
0.9533	0.0533	$9.177 \times 10^{-3}$	$2.755 \times 10^{-3}$	$-1.874 \times 10^{-3}$	$1.759 \times 10^{-4}$
0.9600	0.0533	$8.912 \times 10^{-3}$	$2.678 \times 10^{-3}$	$-1.750 \times 10^{-3}$	$1.340 \times 10^{-4}$
0.9667	0.0533	$8.813 \times 10^{-3}$	$2.641 \times 10^{-3}$	$-1.728 \times 10^{-3}$	$1.167 \times 10^{-4}$
0.9733	0.0533	$8.388 \times 10^{-3}$	$2.478 \times 10^{-3}$	$-1.535 \times 10^{-3}$	$1.309 \times 10^{-4}$
0.9800	0.0533	$8.172 \times 10^{-3}$	$2.456 \times 10^{-3}$	$-1.424 \times 10^{-3}$	$1.233 \times 10^{-4}$
0.9867	0.0533	$7.981 \times 10^{-3}$	$2.488 \times 10^{-3}$	$-1.353 \times 10^{-3}$	$1.106 \times 10^{-4}$
0.9933	0.0533	$7.734 \times 10^{-3}$	$2.419 \times 10^{-3}$	$-1.257 \times 10^{-3}$	$1.137 \times 10^{-4}$
1.0000	0.0533	$7.536 \times 10^{-3}$	$2.295 \times 10^{-3}$	$-1.194 \times 10^{-3}$	$1.128 \times 10^{-4}$
0.4667	0.0600	$3.461 \times 10^{-2}$	$9.611 \times 10^{-3}$	$2.294 \times 10^{-4}$	$4.548 \times 10^{-3}$
0.4733	0.0600	$3.611 \times 10^{-2}$	$9.160 \times 10^{-3}$	$1.295 \times 10^{-4}$	$4.599 \times 10^{-3}$
0.4800	0.0600	$3.804 \times 10^{-2}$	$8.612 \times 10^{-3}$	$1.528 \times 10^{-4}$	$4.618 \times 10^{-3}$
0.4867	0.0600	$4.042 \times 10^{-2}$	$7.691 \times 10^{-3}$	$1.335 \times 10^{-4}$	$4.556 \times 10^{-3}$
0.4933	0.0600	$4.275 \times 10^{-2}$	$6.522 \times 10^{-3}$	$7.014 \times 10^{-5}$	$4.380 \times 10^{-3}$
0.5000	0.0600	$4.520 \times 10^{-2}$	$5.488 \times 10^{-3}$	$1.861 \times 10^{-4}$	$4.285 \times 10^{-3}$
0.5067	0.0600	$4.749 \times 10^{-2}$	$4.083 \times 10^{-3}$	$2.227 \times 10^{-4}$	$4.070 \times 10^{-3}$
0.5133	0.0600	$5.072 \times 10^{-2}$	$3.095 \times 10^{-3}$	$3.982 \times 10^{-4}$	$4.040 \times 10^{-3}$
0.5200	0.0600	$5.378 \times 10^{-2}$	$2.179 \times 10^{-3}$	$5.368 \times 10^{-4}$	$3.992 \times 10^{-3}$
0.5267	0.0600	$5.710 \times 10^{-2}$	$1.441 \times 10^{-3}$	$8.312 \times 10^{-4}$	$3.916 \times 10^{-3}$
0.5333	0.0600	$6.015 \times 10^{-2}$	$8.823 \times 10^{-4}$	$9.022 \times 10^{-4}$	$3.795 \times 10^{-3}$
0.5400	0.0600	$6.298 \times 10^{-2}$	$2.440 \times 10^{-4}$	$9.141 \times 10^{-4}$	$3.551 \times 10^{-3}$
0.5467	0.0600	$6.568 \times 10^{-2}$	$-3.493 \times 10^{-4}$	$8.914 \times 10^{-4}$	$3.334 \times 10^{-3}$
0.5533	0.0600	$6.842 \times 10^{-2}$	$-9.595 \times 10^{-4}$	$9.919 \times 10^{-4}$	$3.150 \times 10^{-3}$
0.5600	0.0600	$7.079 \times 10^{-2}$	$-1.377 \times 10^{-3}$	$1.018 \times 10^{-3}$	$3.038 \times 10^{-3}$
0.5667	0.0600	$7.316 \times 10^{-2}$	$-1.644 \times 10^{-3}$	$1.206 \times 10^{-3}$	$2.958 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.0600	$7.545 \times 10^{-2}$	$-1.886 \times 10^{-3}$	$1.177 \times 10^{-3}$	$2.876 \times 10^{-3}$
0.5800	0.0600	$7.746 \times 10^{-2}$	$-2.086 \times 10^{-3}$	$1.336 \times 10^{-3}$	$2.768 \times 10^{-3}$
0.5867	0.0600	$7.942 \times 10^{-2}$	$-2.299 \times 10^{-3}$	$1.351 \times 10^{-3}$	$2.649 \times 10^{-3}$
0.5933	0.0600	$8.081 \times 10^{-2}$	$-2.517 \times 10^{-3}$	$1.401 \times 10^{-3}$	$2.608 \times 10^{-3}$
0.6000	0.0600	$8.243 \times 10^{-2}$	$-2.777 \times 10^{-3}$	$1.386 \times 10^{-3}$	$2.533 \times 10^{-3}$
0.6067	0.0600	$8.311 \times 10^{-2}$	$-2.880 \times 10^{-3}$	$1.444 \times 10^{-3}$	$2.504 \times 10^{-3}$
0.6133	0.0600	$8.444 \times 10^{-2}$	$-3.166 \times 10^{-3}$	$1.534 \times 10^{-3}$	$2.483 \times 10^{-3}$
0.6200	0.0600	$8.518 \times 10^{-2}$	$-3.470 \times 10^{-3}$	$1.689 \times 10^{-3}$	$2.544 \times 10^{-3}$
0.6267	0.0600	$8.619 \times 10^{-2}$	$-4.001 \times 10^{-3}$	$1.899 \times 10^{-3}$	$2.700 \times 10^{-3}$
0.6333	0.0600	$8.674 \times 10^{-2}$	$-4.783 \times 10^{-3}$	$2.131 \times 10^{-3}$	$2.927 \times 10^{-3}$
0.6400	0.0600	$8.745 \times 10^{-2}$	$-5.711 \times 10^{-3}$	$2.382 \times 10^{-3}$	$3.209 \times 10^{-3}$
0.6467	0.0600	$8.830 \times 10^{-2}$	$-6.568 \times 10^{-3}$	$2.784 \times 10^{-3}$	$3.497 \times 10^{-3}$
0.6533	0.0600	$8.996 \times 10^{-2}$	$-7.925 \times 10^{-3}$	$3.386 \times 10^{-3}$	$3.967 \times 10^{-3}$
0.6600	0.0600	$9.267 \times 10^{-2}$	$-9.424 \times 10^{-3}$	$4.005 \times 10^{-3}$	$4.491 \times 10^{-3}$
0.6667	0.0600	$9.506 \times 10^{-2}$	$-1.062 \times 10^{-2}$	$4.566 \times 10^{-3}$	$4.928 \times 10^{-3}$
0.6733	0.0600	$1.005 \times 10^{-1}$	$-1.266 \times 10^{-2}$	$5.830 \times 10^{-3}$	$5.692 \times 10^{-3}$
0.6800	0.0600	$1.107 \times 10^{-1}$	$-1.429 \times 10^{-2}$	$6.995 \times 10^{-3}$	$6.675 \times 10^{-3}$
0.6867	0.0600	$1.224 \times 10^{-1}$	$-1.542 \times 10^{-2}$	$7.691 \times 10^{-3}$	$7.696 \times 10^{-3}$
0.6933	0.0600	$1.320 \times 10^{-1}$	$-1.569 \times 10^{-2}$	$8.493 \times 10^{-3}$	$8.587 \times 10^{-3}$
0.7000	0.0600	$1.442 \times 10^{-1}$	$-1.520 \times 10^{-2}$	$9.619 \times 10^{-3}$	$9.573 \times 10^{-3}$
0.7067	0.0600	$1.585 \times 10^{-1}$	$-1.206 \times 10^{-2}$	$1.042 \times 10^{-2}$	$1.054 \times 10^{-2}$
0.7133	0.0600	$1.737 \times 10^{-1}$	$-7.319 \times 10^{-3}$	$9.969 \times 10^{-3}$	$1.148 \times 10^{-2}$
0.7200	0.0600	$1.821 \times 10^{-1}$	$-1.154 \times 10^{-3}$	$8.884 \times 10^{-3}$	$1.142 \times 10^{-2}$
0.7267	0.0600	$1.822 \times 10^{-1}$	$5.101 \times 10^{-3}$	$7.546 \times 10^{-3}$	$1.096 \times 10^{-2}$
0.7333	0.0600	$1.778 \times 10^{-1}$	$1.069 \times 10^{-2}$	$6.148 \times 10^{-3}$	$1.022 \times 10^{-2}$
0.7400	0.0600	$1.661 \times 10^{-1}$	$1.672 \times 10^{-2}$	$3.631 \times 10^{-3}$	$8.894 \times 10^{-3}$
0.7467	0.0600	$1.550 \times 10^{-1}$	$1.905 \times 10^{-2}$	$1.741 \times 10^{-3}$	$7.861 \times 10^{-3}$
0.7533	0.0600	$1.365 \times 10^{-1}$	$2.060 \times 10^{-2}$	$5.965 \times 10^{-4}$	$6.356 \times 10^{-3}$
0.7600	0.0600	$1.189 \times 10^{-1}$	$2.022 \times 10^{-2}$	$-5.806 \times 10^{-4}$	$4.890 \times 10^{-3}$
0.7667	0.0600	$1.076 \times 10^{-1}$	$1.895 \times 10^{-2}$	$-9.685 \times 10^{-4}$	$4.178 \times 10^{-3}$
0.7733	0.0600	$9.607 \times 10^{-2}$	$1.631 \times 10^{-2}$	$-5.812 \times 10^{-4}$	$3.231 \times 10^{-3}$
0.7800	0.0600	$8.985 \times 10^{-2}$	$1.505 \times 10^{-2}$	$2.988 \times 10^{-4}$	$2.734 \times 10^{-3}$
0.7867	0.0600	$8.155 \times 10^{-2}$	$1.278 \times 10^{-2}$	$1.158 \times 10^{-3}$	$2.264 \times 10^{-3}$
0.7933	0.0600	$7.836 \times 10^{-2}$	$1.267 \times 10^{-2}$	$1.552 \times 10^{-3}$	$2.046 \times 10^{-3}$
0.8000	0.0600	$7.293 \times 10^{-2}$	$1.219 \times 10^{-2}$	$1.688 \times 10^{-3}$	$1.696 \times 10^{-3}$
0.8067	0.0600	$6.703 \times 10^{-2}$	$1.190 \times 10^{-2}$	$9.374 \times 10^{-4}$	$1.463 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.0600	$6.054 \times 10^{-2}$	$1.168 \times 10^{-2}$	$3.733 \times 10^{-4}$	$1.248 \times 10^{-3}$
0.8200	0.0600	$5.389 \times 10^{-2}$	$1.105 \times 10^{-2}$	$-2.995 \times 10^{-4}$	$1.025 \times 10^{-3}$
0.8267	0.0600	$4.771 \times 10^{-2}$	$1.058 \times 10^{-2}$	$-3.696 \times 10^{-4}$	$7.710 \times 10^{-4}$
0.8333	0.0600	$4.095 \times 10^{-2}$	$9.312 \times 10^{-3}$	$-9.245 \times 10^{-4}$	$6.867 \times 10^{-4}$
0.8400	0.0600	$3.611 \times 10^{-2}$	$8.662 \times 10^{-3}$	$-1.731 \times 10^{-3}$	$5.475 \times 10^{-4}$
0.8467	0.0600	$3.175 \times 10^{-2}$	$7.909 \times 10^{-3}$	$-2.126 \times 10^{-3}$	$3.776 \times 10^{-4}$
0.8533	0.0600	$2.714 \times 10^{-2}$	$7.030 \times 10^{-3}$	$-2.401 \times 10^{-3}$	$2.841 \times 10^{-4}$
0.8600	0.0600	$2.447 \times 10^{-2}$	$6.416 \times 10^{-3}$	$-2.551 \times 10^{-3}$	$2.446 \times 10^{-4}$
0.8667	0.0600	$2.116 \times 10^{-2}$	$5.720 \times 10^{-3}$	$-2.855 \times 10^{-3}$	$2.162 \times 10^{-4}$
0.8733	0.0600	$1.982 \times 10^{-2}$	$5.630 \times 10^{-3}$	$-2.476 \times 10^{-3}$	$2.229 \times 10^{-4}$
0.8800	0.0600	$1.742 \times 10^{-2}$	$4.950 \times 10^{-3}$	$-2.584 \times 10^{-3}$	$2.141 \times 10^{-4}$
0.8867	0.0600	$1.625 \times 10^{-2}$	$4.688 \times 10^{-3}$	$-2.835 \times 10^{-3}$	$2.449 \times 10^{-4}$
0.8933	0.0600	$1.510 \times 10^{-2}$	$4.252 \times 10^{-3}$	$-2.862 \times 10^{-3}$	$1.807 \times 10^{-4}$
0.9000	0.0600	$1.410 \times 10^{-2}$	$4.430 \times 10^{-3}$	$-2.692 \times 10^{-3}$	$1.850 \times 10^{-4}$
0.9067	0.0600	$1.253 \times 10^{-2}$	$3.991 \times 10^{-3}$	$-2.563 \times 10^{-3}$	$1.725 \times 10^{-4}$
0.9133	0.0600	$1.222 \times 10^{-2}$	$3.794 \times 10^{-3}$	$-2.251 \times 10^{-3}$	$6.377 \times 10^{-5}$
0.9200	0.0600	$1.206 \times 10^{-2}$	$3.849 \times 10^{-3}$	$-2.385 \times 10^{-3}$	$1.380 \times 10^{-4}$
0.9267	0.0600	$1.148 \times 10^{-2}$	$3.769 \times 10^{-3}$	$-2.242 \times 10^{-3}$	$1.636 \times 10^{-4}$
0.9333	0.0600	$1.081 \times 10^{-2}$	$3.628 \times 10^{-3}$	$-2.134 \times 10^{-3}$	$1.729 \times 10^{-4}$
0.9400	0.0600	$1.046 \times 10^{-2}$	$3.362 \times 10^{-3}$	$-2.112 \times 10^{-3}$	$1.602 \times 10^{-4}$
0.9467	0.0600	$1.010 \times 10^{-2}$	$3.186 \times 10^{-3}$	$-2.059 \times 10^{-3}$	$1.497 \times 10^{-4}$
0.9533	0.0600	$9.842 \times 10^{-3}$	$3.138 \times 10^{-3}$	$-2.138 \times 10^{-3}$	$2.220 \times 10^{-4}$
0.9600	0.0600	$9.663 \times 10^{-3}$	$2.983 \times 10^{-3}$	$-2.037 \times 10^{-3}$	$1.996 \times 10^{-4}$
0.9667	0.0600	$9.157 \times 10^{-3}$	$2.840 \times 10^{-3}$	$-1.886 \times 10^{-3}$	$1.660 \times 10^{-4}$
0.9733	0.0600	$8.763 \times 10^{-3}$	$2.675 \times 10^{-3}$	$-1.731 \times 10^{-3}$	$1.494 \times 10^{-4}$
0.9800	0.0600	$8.526 \times 10^{-3}$	$2.627 \times 10^{-3}$	$-1.624 \times 10^{-3}$	$1.305 \times 10^{-4}$
0.9867	0.0600	$8.279 \times 10^{-3}$	$2.641 \times 10^{-3}$	$-1.562 \times 10^{-3}$	$1.372 \times 10^{-4}$
0.9933	0.0600	$7.922 \times 10^{-3}$	$2.491 \times 10^{-3}$	$-1.460 \times 10^{-3}$	$1.276 \times 10^{-4}$
1.0000	0.0600	$7.456 \times 10^{-3}$	$2.433 \times 10^{-3}$	$-1.292 \times 10^{-3}$	$1.268 \times 10^{-4}$
0.4667	0.0667	$3.490 \times 10^{-2}$	$9.472 \times 10^{-3}$	$9.784 \times 10^{-5}$	$4.583 \times 10^{-3}$
0.4733	0.0667	$3.516 \times 10^{-2}$	$9.414 \times 10^{-3}$	$7.823 \times 10^{-5}$	$4.599 \times 10^{-3}$
0.4800	0.0667	$3.888 \times 10^{-2}$	$8.507 \times 10^{-3}$	$1.954 \times 10^{-4}$	$4.693 \times 10^{-3}$
0.4867	0.0667	$3.945 \times 10^{-2}$	$8.386 \times 10^{-3}$	$2.271 \times 10^{-4}$	$4.705 \times 10^{-3}$
0.4933	0.0667	$4.374 \times 10^{-2}$	$6.594 \times 10^{-3}$	$2.236 \times 10^{-4}$	$4.498 \times 10^{-3}$
0.5000	0.0667	$4.443 \times 10^{-2}$	$6.327 \times 10^{-3}$	$2.325 \times 10^{-4}$	$4.465 \times 10^{-3}$
0.5067	0.0667	$4.878 \times 10^{-2}$	$3.887 \times 10^{-3}$	$3.772 \times 10^{-4}$	$4.117 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.0667	$4.950 \times 10^{-2}$	$3.485 \times 10^{-3}$	$3.944 \times 10^{-4}$	$4.065 \times 10^{-3}$
0.5200	0.0667	$5.492 \times 10^{-2}$	$1.867 \times 10^{-3}$	$8.112 \times 10^{-4}$	$3.965 \times 10^{-3}$
0.5267	0.0667	$5.580 \times 10^{-2}$	$1.595 \times 10^{-3}$	$8.767 \times 10^{-4}$	$3.956 \times 10^{-3}$
0.5333	0.0667	$6.104 \times 10^{-2}$	$6.290 \times 10^{-4}$	$9.694 \times 10^{-4}$	$3.680 \times 10^{-3}$
0.5400	0.0667	$6.189 \times 10^{-2}$	$4.668 \times 10^{-4}$	$9.783 \times 10^{-4}$	$3.638 \times 10^{-3}$
0.5467	0.0667	$6.673 \times 10^{-2}$	$-6.326 \times 10^{-4}$	$1.042 \times 10^{-3}$	$3.242 \times 10^{-3}$
0.5533	0.0667	$6.756 \times 10^{-2}$	$-8.212 \times 10^{-4}$	$1.058 \times 10^{-3}$	$3.177 \times 10^{-3}$
0.5600	0.0667	$7.150 \times 10^{-2}$	$-1.437 \times 10^{-3}$	$1.290 \times 10^{-3}$	$3.016 \times 10^{-3}$
0.5667	0.0667	$7.221 \times 10^{-2}$	$-1.541 \times 10^{-3}$	$1.331 \times 10^{-3}$	$2.988 \times 10^{-3}$
0.5733	0.0667	$7.591 \times 10^{-2}$	$-1.930 \times 10^{-3}$	$1.380 \times 10^{-3}$	$2.843 \times 10^{-3}$
0.5800	0.0667	$7.691 \times 10^{-2}$	$-2.021 \times 10^{-3}$	$1.386 \times 10^{-3}$	$2.807 \times 10^{-3}$
0.5867	0.0667	$7.867 \times 10^{-2}$	$-2.263 \times 10^{-3}$	$1.435 \times 10^{-3}$	$2.713 \times 10^{-3}$
0.5933	0.0667	$8.083 \times 10^{-2}$	$-2.510 \times 10^{-3}$	$1.452 \times 10^{-3}$	$2.623 \times 10^{-3}$
0.6000	0.0667	$8.112 \times 10^{-2}$	$-2.552 \times 10^{-3}$	$1.464 \times 10^{-3}$	$2.606 \times 10^{-3}$
0.6067	0.0667	$8.329 \times 10^{-2}$	$-2.826 \times 10^{-3}$	$1.519 \times 10^{-3}$	$2.472 \times 10^{-3}$
0.6133	0.0667	$8.344 \times 10^{-2}$	$-2.864 \times 10^{-3}$	$1.534 \times 10^{-3}$	$2.473 \times 10^{-3}$
0.6200	0.0667	$8.525 \times 10^{-2}$	$-3.453 \times 10^{-3}$	$1.761 \times 10^{-3}$	$2.503 \times 10^{-3}$
0.6267	0.0667	$8.548 \times 10^{-2}$	$-3.636 \times 10^{-3}$	$1.846 \times 10^{-3}$	$2.569 \times 10^{-3}$
0.6333	0.0667	$8.652 \times 10^{-2}$	$-4.516 \times 10^{-3}$	$2.183 \times 10^{-3}$	$2.852 \times 10^{-3}$
0.6400	0.0667	$8.724 \times 10^{-2}$	$-5.489 \times 10^{-3}$	$2.611 \times 10^{-3}$	$3.181 \times 10^{-3}$
0.6467	0.0667	$8.766 \times 10^{-2}$	$-6.079 \times 10^{-3}$	$2.814 \times 10^{-3}$	$3.366 \times 10^{-3}$
0.6533	0.0667	$8.974 \times 10^{-2}$	$-7.826 \times 10^{-3}$	$3.460 \times 10^{-3}$	$3.951 \times 10^{-3}$
0.6600	0.0667	$9.150 \times 10^{-2}$	$-8.779 \times 10^{-3}$	$4.046 \times 10^{-3}$	$4.304 \times 10^{-3}$
0.6667	0.0667	$9.483 \times 10^{-2}$	$-1.036 \times 10^{-2}$	$4.872 \times 10^{-3}$	$4.877 \times 10^{-3}$
0.6733	0.0667	$1.001 \times 10^{-1}$	$-1.224 \times 10^{-2}$	$6.045 \times 10^{-3}$	$5.600 \times 10^{-3}$
0.6800	0.0667	$1.046 \times 10^{-1}$	$-1.316 \times 10^{-2}$	$7.001 \times 10^{-3}$	$6.089 \times 10^{-3}$
0.6867	0.0667	$1.148 \times 10^{-1}$	$-1.470 \times 10^{-2}$	$7.748 \times 10^{-3}$	$7.049 \times 10^{-3}$
0.6933	0.0667	$1.285 \times 10^{-1}$	$-1.578 \times 10^{-2}$	$9.000 \times 10^{-3}$	$8.425 \times 10^{-3}$
0.7000	0.0667	$1.395 \times 10^{-1}$	$-1.512 \times 10^{-2}$	$1.038 \times 10^{-2}$	$9.316 \times 10^{-3}$
0.7067	0.0667	$1.500 \times 10^{-1}$	$-1.318 \times 10^{-2}$	$1.146 \times 10^{-2}$	$1.005 \times 10^{-2}$
0.7133	0.0667	$1.645 \times 10^{-1}$	$-9.525 \times 10^{-3}$	$1.122 \times 10^{-2}$	$1.090 \times 10^{-2}$
0.7200	0.0667	$1.769 \times 10^{-1}$	$-4.522 \times 10^{-3}$	$1.053 \times 10^{-2}$	$1.154 \times 10^{-2}$
0.7267	0.0667	$1.810 \times 10^{-1}$	$2.331 \times 10^{-3}$	$9.330 \times 10^{-3}$	$1.129 \times 10^{-2}$
0.7333	0.0667	$1.794 \times 10^{-1}$	$7.778 \times 10^{-3}$	$7.920 \times 10^{-3}$	$1.068 \times 10^{-2}$
0.7400	0.0667	$1.713 \times 10^{-1}$	$1.425 \times 10^{-2}$	$5.663 \times 10^{-3}$	$9.529 \times 10^{-3}$
0.7467	0.0667	$1.549 \times 10^{-1}$	$1.920 \times 10^{-2}$	$2.405 \times 10^{-3}$	$7.952 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.0667	$1.407 \times 10^{-1}$	$2.054 \times 10^{-2}$	$8.742 \times 10^{-4}$	$6.657 \times 10^{-3}$
0.7600	0.0667	$1.279 \times 10^{-1}$	$2.069 \times 10^{-2}$	$1.105 \times 10^{-4}$	$5.663 \times 10^{-3}$
0.7667	0.0667	$1.084 \times 10^{-1}$	$1.906 \times 10^{-2}$	$-5.401 \times 10^{-4}$	$4.268 \times 10^{-3}$
0.7733	0.0667	$9.918 \times 10^{-2}$	$1.807 \times 10^{-2}$	$-5.719 \times 10^{-4}$	$3.594 \times 10^{-3}$
0.7800	0.0667	$8.957 \times 10^{-2}$	$1.573 \times 10^{-2}$	$-5.316 \times 10^{-4}$	$3.003 \times 10^{-3}$
0.7867	0.0667	$8.216 \times 10^{-2}$	$1.376 \times 10^{-2}$	$3.143 \times 10^{-4}$	$2.430 \times 10^{-3}$
0.7933	0.0667	$7.718 \times 10^{-2}$	$1.353 \times 10^{-2}$	$6.164 \times 10^{-4}$	$2.123 \times 10^{-3}$
0.8000	0.0667	$7.192 \times 10^{-2}$	$1.315 \times 10^{-2}$	$1.209 \times 10^{-3}$	$1.841 \times 10^{-3}$
0.8067	0.0667	$6.599 \times 10^{-2}$	$1.253 \times 10^{-2}$	$5.809 \times 10^{-4}$	$1.532 \times 10^{-3}$
0.8133	0.0667	$6.093 \times 10^{-2}$	$1.188 \times 10^{-2}$	$4.830 \times 10^{-4}$	$1.404 \times 10^{-3}$
0.8200	0.0667	$5.521 \times 10^{-2}$	$1.185 \times 10^{-2}$	$4.346 \times 10^{-4}$	$1.170 \times 10^{-3}$
0.8267	0.0667	$4.945 \times 10^{-2}$	$1.140 \times 10^{-2}$	$-5.587 \times 10^{-5}$	$9.834 \times 10^{-4}$
0.8333	0.0667	$4.440 \times 10^{-2}$	$1.127 \times 10^{-2}$	$-7.146 \times 10^{-4}$	$8.518 \times 10^{-4}$
0.8400	0.0667	$3.925 \times 10^{-2}$	$1.038 \times 10^{-2}$	$-1.399 \times 10^{-3}$	$7.102 \times 10^{-4}$
0.8467	0.0667	$3.342 \times 10^{-2}$	$9.293 \times 10^{-3}$	$-1.507 \times 10^{-3}$	$5.240 \times 10^{-4}$
0.8533	0.0667	$3.055 \times 10^{-2}$	$8.544 \times 10^{-3}$	$-2.361 \times 10^{-3}$	$4.973 \times 10^{-4}$
0.8600	0.0667	$2.805 \times 10^{-2}$	$8.071 \times 10^{-3}$	$-2.699 \times 10^{-3}$	$3.283 \times 10^{-4}$
0.8667	0.0667	$2.409 \times 10^{-2}$	$6.896 \times 10^{-3}$	$-2.510 \times 10^{-3}$	$2.639 \times 10^{-4}$
0.8733	0.0667	$2.240 \times 10^{-2}$	$6.735 \times 10^{-3}$	$-2.681 \times 10^{-3}$	$3.402 \times 10^{-4}$
0.8800	0.0667	$2.033 \times 10^{-2}$	$6.151 \times 10^{-3}$	$-3.044 \times 10^{-3}$	$1.746 \times 10^{-4}$
0.8867	0.0667	$1.823 \times 10^{-2}$	$6.147 \times 10^{-3}$	$-2.892 \times 10^{-3}$	$3.249 \times 10^{-4}$
0.8933	0.0667	$1.677 \times 10^{-2}$	$5.627 \times 10^{-3}$	$-2.766 \times 10^{-3}$	$2.859 \times 10^{-4}$
0.9000	0.0667	$1.634 \times 10^{-2}$	$5.756 \times 10^{-3}$	$-2.690 \times 10^{-3}$	$3.047 \times 10^{-4}$
0.9067	0.0667	$1.524 \times 10^{-2}$	$5.199 \times 10^{-3}$	$-2.613 \times 10^{-3}$	$2.350 \times 10^{-4}$
0.9133	0.0667	$1.405 \times 10^{-2}$	$5.207 \times 10^{-3}$	$-2.706 \times 10^{-3}$	$2.426 \times 10^{-4}$
0.9200	0.0667	$1.288 \times 10^{-2}$	$4.498 \times 10^{-3}$	$-2.467 \times 10^{-3}$	$2.223 \times 10^{-4}$
0.9267	0.0667	$1.254 \times 10^{-2}$	$4.314 \times 10^{-3}$	$-2.381 \times 10^{-3}$	$2.004 \times 10^{-4}$
0.9333	0.0667	$1.193 \times 10^{-2}$	$4.191 \times 10^{-3}$	$-2.373 \times 10^{-3}$	$2.345 \times 10^{-4}$
0.9400	0.0667	$1.104 \times 10^{-2}$	$3.726 \times 10^{-3}$	$-2.282 \times 10^{-3}$	$1.318 \times 10^{-4}$
0.9467	0.0667	$1.066 \times 10^{-2}$	$3.627 \times 10^{-3}$	$-2.210 \times 10^{-3}$	$1.470 \times 10^{-4}$
0.9533	0.0667	$1.014 \times 10^{-2}$	$3.148 \times 10^{-3}$	$-2.085 \times 10^{-3}$	$2.325 \times 10^{-4}$
0.9600	0.0667	$1.021 \times 10^{-2}$	$3.356 \times 10^{-3}$	$-2.071 \times 10^{-3}$	$2.141 \times 10^{-4}$
0.9667	0.0667	$9.633 \times 10^{-3}$	$3.081 \times 10^{-3}$	$-1.984 \times 10^{-3}$	$1.865 \times 10^{-4}$
0.9733	0.0667	$9.219 \times 10^{-3}$	$2.856 \times 10^{-3}$	$-1.816 \times 10^{-3}$	$1.712 \times 10^{-4}$
0.9800	0.0667	$8.841 \times 10^{-3}$	$2.915 \times 10^{-3}$	$-1.825 \times 10^{-3}$	$1.667 \times 10^{-4}$
0.9867	0.0667	$8.439 \times 10^{-3}$	$2.848 \times 10^{-3}$	$-1.739 \times 10^{-3}$	$1.596 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.0667	$8.037 \times 10^{-3}$	$2.602 \times 10^{-3}$	$-1.540 \times 10^{-3}$	$1.389 \times 10^{-4}$
1.0000	0.0667	$8.027 \times 10^{-3}$	$2.873 \times 10^{-3}$	$-1.656 \times 10^{-3}$	$1.762 \times 10^{-4}$
0.4667	0.0733	$3.399 \times 10^{-2}$	$9.528 \times 10^{-3}$	$-2.164 \times 10^{-5}$	$4.523 \times 10^{-3}$
0.4733	0.0733	$3.623 \times 10^{-2}$	$9.110 \times 10^{-3}$	$2.500 \times 10^{-5}$	$4.682 \times 10^{-3}$
0.4800	0.0733	$3.755 \times 10^{-2}$	$8.793 \times 10^{-3}$	$1.954 \times 10^{-5}$	$4.756 \times 10^{-3}$
0.4867	0.0733	$4.045 \times 10^{-2}$	$8.066 \times 10^{-3}$	$1.716 \times 10^{-4}$	$4.768 \times 10^{-3}$
0.4933	0.0733	$4.197 \times 10^{-2}$	$7.600 \times 10^{-3}$	$2.015 \times 10^{-4}$	$4.770 \times 10^{-3}$
0.5000	0.0733	$4.526 \times 10^{-2}$	$6.061 \times 10^{-3}$	$3.728 \times 10^{-4}$	$4.439 \times 10^{-3}$
0.5067	0.0733	$4.684 \times 10^{-2}$	$5.346 \times 10^{-3}$	$4.835 \times 10^{-4}$	$4.312 \times 10^{-3}$
0.5133	0.0733	$5.048 \times 10^{-2}$	$3.298 \times 10^{-3}$	$6.224 \times 10^{-4}$	$4.003 \times 10^{-3}$
0.5200	0.0733	$5.228 \times 10^{-2}$	$2.560 \times 10^{-3}$	$7.802 \times 10^{-4}$	$3.888 \times 10^{-3}$
0.5267	0.0733	$5.676 \times 10^{-2}$	$1.471 \times 10^{-3}$	$9.928 \times 10^{-4}$	$3.839 \times 10^{-3}$
0.5333	0.0733	$5.876 \times 10^{-2}$	$1.050 \times 10^{-3}$	$1.099 \times 10^{-3}$	$3.755 \times 10^{-3}$
0.5400	0.0733	$6.265 \times 10^{-2}$	$2.646 \times 10^{-4}$	$1.003 \times 10^{-3}$	$3.523 \times 10^{-3}$
0.5467	0.0733	$6.438 \times 10^{-2}$	$-1.070 \times 10^{-4}$	$1.002 \times 10^{-3}$	$3.388 \times 10^{-3}$
0.5533	0.0733	$6.781 \times 10^{-2}$	$-8.643 \times 10^{-4}$	$1.216 \times 10^{-3}$	$3.166 \times 10^{-3}$
0.5600	0.0733	$6.918 \times 10^{-2}$	$-1.140 \times 10^{-3}$	$1.344 \times 10^{-3}$	$3.086 \times 10^{-3}$
0.5667	0.0733	$7.254 \times 10^{-2}$	$-1.636 \times 10^{-3}$	$1.457 \times 10^{-3}$	$2.953 \times 10^{-3}$
0.5733	0.0733	$7.389 \times 10^{-2}$	$-1.848 \times 10^{-3}$	$1.544 \times 10^{-3}$	$2.891 \times 10^{-3}$
0.5800	0.0733	$7.676 \times 10^{-2}$	$-2.098 \times 10^{-3}$	$1.503 \times 10^{-3}$	$2.790 \times 10^{-3}$
0.5867	0.0733	$7.829 \times 10^{-2}$	$-2.334 \times 10^{-3}$	$1.586 \times 10^{-3}$	$2.715 \times 10^{-3}$
0.5933	0.0733	$7.999 \times 10^{-2}$	$-2.462 \times 10^{-3}$	$1.542 \times 10^{-3}$	$2.649 \times 10^{-3}$
0.6000	0.0733	$8.146 \times 10^{-2}$	$-2.659 \times 10^{-3}$	$1.682 \times 10^{-3}$	$2.581 \times 10^{-3}$
0.6067	0.0733	$8.219 \times 10^{-2}$	$-2.752 \times 10^{-3}$	$1.701 \times 10^{-3}$	$2.543 \times 10^{-3}$
0.6133	0.0733	$8.387 \times 10^{-2}$	$-2.975 \times 10^{-3}$	$1.751 \times 10^{-3}$	$2.490 \times 10^{-3}$
0.6200	0.0733	$8.440 \times 10^{-2}$	$-3.128 \times 10^{-3}$	$1.817 \times 10^{-3}$	$2.505 \times 10^{-3}$
0.6267	0.0733	$8.562 \times 10^{-2}$	$-3.716 \times 10^{-3}$	$2.130 \times 10^{-3}$	$2.681 \times 10^{-3}$
0.6333	0.0733	$8.597 \times 10^{-2}$	$-4.033 \times 10^{-3}$	$2.266 \times 10^{-3}$	$2.776 \times 10^{-3}$
0.6400	0.0733	$8.692 \times 10^{-2}$	$-4.862 \times 10^{-3}$	$2.752 \times 10^{-3}$	$3.062 \times 10^{-3}$
0.6467	0.0733	$8.805 \times 10^{-2}$	$-6.238 \times 10^{-3}$	$3.357 \times 10^{-3}$	$3.514 \times 10^{-3}$
0.6533	0.0733	$8.849 \times 10^{-2}$	$-6.700 \times 10^{-3}$	$3.600 \times 10^{-3}$	$3.673 \times 10^{-3}$
0.6600	0.0733	$9.102 \times 10^{-2}$	$-8.558 \times 10^{-3}$	$4.215 \times 10^{-3}$	$4.248 \times 10^{-3}$
0.6667	0.0733	$9.434 \times 10^{-2}$	$-1.003 \times 10^{-2}$	$5.179 \times 10^{-3}$	$4.808 \times 10^{-3}$
0.6733	0.0733	$9.813 \times 10^{-2}$	$-1.131 \times 10^{-2}$	$6.406 \times 10^{-3}$	$5.341 \times 10^{-3}$
0.6800	0.0733	$1.064 \times 10^{-1}$	$-1.318 \times 10^{-2}$	$7.945 \times 10^{-3}$	$6.257 \times 10^{-3}$
0.6867	0.0733	$1.117 \times 10^{-1}$	$-1.391 \times 10^{-2}$	$8.644 \times 10^{-3}$	$6.813 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.0733	$1.207 \times 10^{-1}$	$-1.481 \times 10^{-2}$	$9.575 \times 10^{-3}$	$7.730 \times 10^{-3}$
0.7000	0.0733	$1.362 \times 10^{-1}$	$-1.465 \times 10^{-2}$	$1.130 \times 10^{-2}$	$9.136 \times 10^{-3}$
0.7067	0.0733	$1.486 \times 10^{-1}$	$-1.265 \times 10^{-2}$	$1.215 \times 10^{-2}$	$9.942 \times 10^{-3}$
0.7133	0.0733	$1.597 \times 10^{-1}$	$-1.015 \times 10^{-2}$	$1.238 \times 10^{-2}$	$1.057 \times 10^{-2}$
0.7200	0.0733	$1.722 \times 10^{-1}$	$-4.904 \times 10^{-3}$	$1.217 \times 10^{-2}$	$1.121 \times 10^{-2}$
0.7267	0.0733	$1.797 \times 10^{-1}$	$2.405 \times 10^{-3}$	$1.025 \times 10^{-2}$	$1.123 \times 10^{-2}$
0.7333	0.0733	$1.770 \times 10^{-1}$	$8.079 \times 10^{-3}$	$8.635 \times 10^{-3}$	$1.062 \times 10^{-2}$
0.7400	0.0733	$1.713 \times 10^{-1}$	$1.340 \times 10^{-2}$	$6.685 \times 10^{-3}$	$9.793 \times 10^{-3}$
0.7467	0.0733	$1.600 \times 10^{-1}$	$1.800 \times 10^{-2}$	$4.289 \times 10^{-3}$	$8.532 \times 10^{-3}$
0.7533	0.0733	$1.435 \times 10^{-1}$	$1.993 \times 10^{-2}$	$2.149 \times 10^{-3}$	$7.036 \times 10^{-3}$
0.7600	0.0733	$1.279 \times 10^{-1}$	$2.049 \times 10^{-2}$	$6.491 \times 10^{-4}$	$5.775 \times 10^{-3}$
0.7667	0.0733	$1.157 \times 10^{-1}$	$2.037 \times 10^{-2}$	$-9.764 \times 10^{-5}$	$4.890 \times 10^{-3}$
0.7733	0.0733	$1.042 \times 10^{-1}$	$1.890 \times 10^{-2}$	$-4.049 \times 10^{-4}$	$4.002 \times 10^{-3}$
0.7800	0.0733	$9.117 \times 10^{-2}$	$1.694 \times 10^{-2}$	$-8.877 \times 10^{-4}$	$3.081 \times 10^{-3}$
0.7867	0.0733	$8.329 \times 10^{-2}$	$1.556 \times 10^{-2}$	$-1.147 \times 10^{-4}$	$2.605 \times 10^{-3}$
0.7933	0.0733	$7.637 \times 10^{-2}$	$1.463 \times 10^{-2}$	$-4.709 \times 10^{-4}$	$2.285 \times 10^{-3}$
0.8000	0.0733	$7.120 \times 10^{-2}$	$1.347 \times 10^{-2}$	$4.530 \times 10^{-4}$	$2.137 \times 10^{-3}$
0.8067	0.0733	$6.563 \times 10^{-2}$	$1.274 \times 10^{-2}$	$5.465 \times 10^{-4}$	$1.814 \times 10^{-3}$
0.8133	0.0733	$6.181 \times 10^{-2}$	$1.229 \times 10^{-2}$	$5.886 \times 10^{-4}$	$1.661 \times 10^{-3}$
0.8200	0.0733	$5.647 \times 10^{-2}$	$1.139 \times 10^{-2}$	$-2.009 \times 10^{-4}$	$1.367 \times 10^{-3}$
0.8267	0.0733	$5.036 \times 10^{-2}$	$1.182 \times 10^{-2}$	$-4.162 \times 10^{-4}$	$1.144 \times 10^{-3}$
0.8333	0.0733	$4.632 \times 10^{-2}$	$1.228 \times 10^{-2}$	$-3.260 \times 10^{-4}$	$1.045 \times 10^{-3}$
0.8400	0.0733	$4.067 \times 10^{-2}$	$1.089 \times 10^{-2}$	$-1.116 \times 10^{-3}$	$9.058 \times 10^{-4}$
0.8467	0.0733	$3.665 \times 10^{-2}$	$1.033 \times 10^{-2}$	$-1.548 \times 10^{-3}$	$9.381 \times 10^{-4}$
0.8533	0.0733	$3.255 \times 10^{-2}$	$8.709 \times 10^{-3}$	$-1.969 \times 10^{-3}$	$6.856 \times 10^{-4}$
0.8600	0.0733	$3.046 \times 10^{-2}$	$8.880 \times 10^{-3}$	$-2.307 \times 10^{-3}$	$6.524 \times 10^{-4}$
0.8667	0.0733	$2.767 \times 10^{-2}$	$8.567 \times 10^{-3}$	$-2.370 \times 10^{-3}$	$6.311 \times 10^{-4}$
0.8733	0.0733	$2.455 \times 10^{-2}$	$7.715 \times 10^{-3}$	$-2.241 \times 10^{-3}$	$4.291 \times 10^{-4}$
0.8800	0.0733	$2.286 \times 10^{-2}$	$7.700 \times 10^{-3}$	$-2.573 \times 10^{-3}$	$4.313 \times 10^{-4}$
0.8867	0.0733	$2.073 \times 10^{-2}$	$7.099 \times 10^{-3}$	$-2.756 \times 10^{-3}$	$4.307 \times 10^{-4}$
0.8933	0.0733	$1.844 \times 10^{-2}$	$6.515 \times 10^{-3}$	$-3.065 \times 10^{-3}$	$4.075 \times 10^{-4}$
0.9000	0.0733	$1.718 \times 10^{-2}$	$6.198 \times 10^{-3}$	$-2.642 \times 10^{-3}$	$4.543 \times 10^{-4}$
0.9067	0.0733	$1.645 \times 10^{-2}$	$5.727 \times 10^{-3}$	$-3.000 \times 10^{-3}$	$3.613 \times 10^{-4}$
0.9133	0.0733	$1.613 \times 10^{-2}$	$5.811 \times 10^{-3}$	$-3.141 \times 10^{-3}$	$3.473 \times 10^{-4}$
0.9200	0.0733	$1.486 \times 10^{-2}$	$5.251 \times 10^{-3}$	$-2.778 \times 10^{-3}$	$3.469 \times 10^{-4}$
0.9267	0.0733	$1.428 \times 10^{-2}$	$5.232 \times 10^{-3}$	$-2.679 \times 10^{-3}$	$3.264 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.0733	$1.336 \times 10^{-2}$	$4.997 \times 10^{-3}$	$-2.669 \times 10^{-3}$	$3.051 \times 10^{-4}$
0.9400	0.0733	$1.208 \times 10^{-2}$	$4.221 \times 10^{-3}$	$-2.635 \times 10^{-3}$	$2.451 \times 10^{-4}$
0.9467	0.0733	$1.169 \times 10^{-2}$	$4.146 \times 10^{-3}$	$-2.489 \times 10^{-3}$	$2.111 \times 10^{-4}$
0.9533	0.0733	$1.127 \times 10^{-2}$	$3.806 \times 10^{-3}$	$-2.342 \times 10^{-3}$	$2.239 \times 10^{-4}$
0.9600	0.0733	$1.100 \times 10^{-2}$	$3.584 \times 10^{-3}$	$-2.255 \times 10^{-3}$	$2.303 \times 10^{-4}$
0.9667	0.0733	$1.034 \times 10^{-2}$	$3.339 \times 10^{-3}$	$-2.016 \times 10^{-3}$	$2.212 \times 10^{-4}$
0.9733	0.0733	$9.568 \times 10^{-3}$	$3.240 \times 10^{-3}$	$-1.941 \times 10^{-3}$	$1.947 \times 10^{-4}$
0.9800	0.0733	$9.157 \times 10^{-3}$	$3.175 \times 10^{-3}$	$-1.923 \times 10^{-3}$	$1.907 \times 10^{-4}$
0.9867	0.0733	$8.724 \times 10^{-3}$	$3.038 \times 10^{-3}$	$-1.841 \times 10^{-3}$	$1.765 \times 10^{-4}$
0.9933	0.0733	$8.430 \times 10^{-3}$	$3.044 \times 10^{-3}$	$-1.782 \times 10^{-3}$	$1.726 \times 10^{-4}$
1.0000	0.0733	$8.038 \times 10^{-3}$	$2.931 \times 10^{-3}$	$-1.625 \times 10^{-3}$	$1.788 \times 10^{-4}$
0.4667	0.0800	$3.379 \times 10^{-2}$	$9.541 \times 10^{-3}$	$-5.111 \times 10^{-5}$	$4.508 \times 10^{-3}$
0.4733	0.0800	$3.661 \times 10^{-2}$	$9.030 \times 10^{-3}$	$-3.364 \times 10^{-7}$	$4.731 \times 10^{-3}$
0.4800	0.0800	$3.733 \times 10^{-2}$	$8.847 \times 10^{-3}$	$-1.095 \times 10^{-5}$	$4.773 \times 10^{-3}$
0.4867	0.0800	$4.080 \times 10^{-2}$	$7.991 \times 10^{-3}$	$1.575 \times 10^{-4}$	$4.823 \times 10^{-3}$
0.4933	0.0800	$4.168 \times 10^{-2}$	$7.779 \times 10^{-3}$	$1.916 \times 10^{-4}$	$4.825 \times 10^{-3}$
0.5000	0.0800	$4.559 \times 10^{-2}$	$6.022 \times 10^{-3}$	$4.488 \times 10^{-4}$	$4.447 \times 10^{-3}$
0.5067	0.0800	$4.651 \times 10^{-2}$	$5.592 \times 10^{-3}$	$5.006 \times 10^{-4}$	$4.345 \times 10^{-3}$
0.5133	0.0800	$5.083 \times 10^{-2}$	$3.212 \times 10^{-3}$	$7.159 \times 10^{-4}$	$3.966 \times 10^{-3}$
0.5200	0.0800	$5.184 \times 10^{-2}$	$2.655 \times 10^{-3}$	$7.815 \times 10^{-4}$	$3.873 \times 10^{-3}$
0.5267	0.0800	$5.711 \times 10^{-2}$	$1.416 \times 10^{-3}$	$1.056 \times 10^{-3}$	$3.795 \times 10^{-3}$
0.5333	0.0800	$5.840 \times 10^{-2}$	$1.118 \times 10^{-3}$	$1.129 \times 10^{-3}$	$3.769 \times 10^{-3}$
0.5400	0.0800	$6.289 \times 10^{-2}$	$2.022 \times 10^{-4}$	$1.018 \times 10^{-3}$	$3.480 \times 10^{-3}$
0.5467	0.0800	$6.403 \times 10^{-2}$	$-2.909 \times 10^{-5}$	$9.885 \times 10^{-4}$	$3.407 \times 10^{-3}$
0.5533	0.0800	$6.781 \times 10^{-2}$	$-8.717 \times 10^{-4}$	$1.307 \times 10^{-3}$	$3.158 \times 10^{-3}$
0.5600	0.0800	$6.880 \times 10^{-2}$	$-1.095 \times 10^{-3}$	$1.361 \times 10^{-3}$	$3.096 \times 10^{-3}$
0.5667	0.0800	$7.257 \times 10^{-2}$	$-1.671 \times 10^{-3}$	$1.549 \times 10^{-3}$	$2.937 \times 10^{-3}$
0.5733	0.0800	$7.361 \times 10^{-2}$	$-1.839 \times 10^{-3}$	$1.573 \times 10^{-3}$	$2.897 \times 10^{-3}$
0.5800	0.0800	$7.649 \times 10^{-2}$	$-2.134 \times 10^{-3}$	$1.646 \times 10^{-3}$	$2.784 \times 10^{-3}$
0.5867	0.0800	$7.824 \times 10^{-2}$	$-2.341 \times 10^{-3}$	$1.601 \times 10^{-3}$	$2.715 \times 10^{-3}$
0.5933	0.0800	$7.902 \times 10^{-2}$	$-2.405 \times 10^{-3}$	$1.715 \times 10^{-3}$	$2.675 \times 10^{-3}$
0.6000	0.0800	$8.149 \times 10^{-2}$	$-2.682 \times 10^{-3}$	$1.774 \times 10^{-3}$	$2.576 \times 10^{-3}$
0.6067	0.0800	$8.171 \times 10^{-2}$	$-2.710 \times 10^{-3}$	$1.781 \times 10^{-3}$	$2.567 \times 10^{-3}$
0.6133	0.0800	$8.375 \times 10^{-2}$	$-2.964 \times 10^{-3}$	$1.849 \times 10^{-3}$	$2.495 \times 10^{-3}$
0.6200	0.0800	$8.418 \times 10^{-2}$	$-3.060 \times 10^{-3}$	$1.874 \times 10^{-3}$	$2.507 \times 10^{-3}$
0.6267	0.0800	$8.535 \times 10^{-2}$	$-3.637 \times 10^{-3}$	$2.202 \times 10^{-3}$	$2.675 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.0800	$8.571 \times 10^{-2}$	$-4.018 \times 10^{-3}$	$2.480 \times 10^{-3}$	$2.792 \times 10^{-3}$
0.6400	0.0800	$8.654 \times 10^{-2}$	$-4.735 \times 10^{-3}$	$2.830 \times 10^{-3}$	$3.031 \times 10^{-3}$
0.6467	0.0800	$8.696 \times 10^{-2}$	$-5.416 \times 10^{-3}$	$3.307 \times 10^{-3}$	$3.287 \times 10^{-3}$
0.6533	0.0800	$8.867 \times 10^{-2}$	$-7.126 \times 10^{-3}$	$4.099 \times 10^{-3}$	$3.821 \times 10^{-3}$
0.6600	0.0800	$8.930 \times 10^{-2}$	$-7.604 \times 10^{-3}$	$4.358 \times 10^{-3}$	$3.983 \times 10^{-3}$
0.6667	0.0800	$9.239 \times 10^{-2}$	$-9.156 \times 10^{-3}$	$5.081 \times 10^{-3}$	$4.560 \times 10^{-3}$
0.6733	0.0800	$9.687 \times 10^{-2}$	$-1.082 \times 10^{-2}$	$6.470 \times 10^{-3}$	$5.207 \times 10^{-3}$
0.6800	0.0800	$1.007 \times 10^{-1}$	$-1.219 \times 10^{-2}$	$7.785 \times 10^{-3}$	$5.861 \times 10^{-3}$
0.6867	0.0800	$1.111 \times 10^{-1}$	$-1.355 \times 10^{-2}$	$9.487 \times 10^{-3}$	$6.862 \times 10^{-3}$
0.6933	0.0800	$1.200 \times 10^{-1}$	$-1.410 \times 10^{-2}$	$1.024 \times 10^{-2}$	$7.649 \times 10^{-3}$
0.7000	0.0800	$1.306 \times 10^{-1}$	$-1.402 \times 10^{-2}$	$1.153 \times 10^{-2}$	$8.508 \times 10^{-3}$
0.7067	0.0800	$1.455 \times 10^{-1}$	$-1.267 \times 10^{-2}$	$1.293 \times 10^{-2}$	$9.557 \times 10^{-3}$
0.7133	0.0800	$1.559 \times 10^{-1}$	$-1.010 \times 10^{-2}$	$1.314 \times 10^{-2}$	$1.034 \times 10^{-2}$
0.7200	0.0800	$1.673 \times 10^{-1}$	$-6.379 \times 10^{-3}$	$1.310 \times 10^{-2}$	$1.099 \times 10^{-2}$
0.7267	0.0800	$1.754 \times 10^{-1}$	$-1.503 \times 10^{-3}$	$1.263 \times 10^{-2}$	$1.134 \times 10^{-2}$
0.7333	0.0800	$1.783 \times 10^{-1}$	$4.596 \times 10^{-3}$	$1.068 \times 10^{-2}$	$1.122 \times 10^{-2}$
0.7400	0.0800	$1.765 \times 10^{-1}$	$1.012 \times 10^{-2}$	$8.647 \times 10^{-3}$	$1.051 \times 10^{-2}$
0.7467	0.0800	$1.680 \times 10^{-1}$	$1.563 \times 10^{-2}$	$5.930 \times 10^{-3}$	$9.416 \times 10^{-3}$
0.7533	0.0800	$1.542 \times 10^{-1}$	$1.927 \times 10^{-2}$	$3.849 \times 10^{-3}$	$8.148 \times 10^{-3}$
0.7600	0.0800	$1.388 \times 10^{-1}$	$2.080 \times 10^{-2}$	$2.071 \times 10^{-3}$	$6.770 \times 10^{-3}$
0.7667	0.0800	$1.208 \times 10^{-1}$	$2.084 \times 10^{-2}$	$2.228 \times 10^{-4}$	$5.273 \times 10^{-3}$
0.7733	0.0800	$1.042 \times 10^{-1}$	$1.923 \times 10^{-2}$	$-1.057 \times 10^{-3}$	$4.093 \times 10^{-3}$
0.7800	0.0800	$9.395 \times 10^{-2}$	$1.767 \times 10^{-2}$	$-1.141 \times 10^{-3}$	$3.459 \times 10^{-3}$
0.7867	0.0800	$8.533 \times 10^{-2}$	$1.647 \times 10^{-2}$	$-9.331 \times 10^{-4}$	$2.898 \times 10^{-3}$
0.7933	0.0800	$7.684 \times 10^{-2}$	$1.510 \times 10^{-2}$	$-7.858 \times 10^{-4}$	$2.412 \times 10^{-3}$
0.8000	0.0800	$7.233 \times 10^{-2}$	$1.402 \times 10^{-2}$	$-3.632 \times 10^{-4}$	$2.174 \times 10^{-3}$
0.8067	0.0800	$6.655 \times 10^{-2}$	$1.331 \times 10^{-2}$	$-4.832 \times 10^{-5}$	$1.902 \times 10^{-3}$
0.8133	0.0800	$6.215 \times 10^{-2}$	$1.279 \times 10^{-2}$	$1.226 \times 10^{-4}$	$1.766 \times 10^{-3}$
0.8200	0.0800	$5.690 \times 10^{-2}$	$1.184 \times 10^{-2}$	$5.219 \times 10^{-5}$	$1.445 \times 10^{-3}$
0.8267	0.0800	$5.233 \times 10^{-2}$	$1.216 \times 10^{-2}$	$1.069 \times 10^{-5}$	$1.347 \times 10^{-3}$
0.8333	0.0800	$4.725 \times 10^{-2}$	$1.250 \times 10^{-2}$	$-5.533 \times 10^{-4}$	$1.366 \times 10^{-3}$
0.8400	0.0800	$4.250 \times 10^{-2}$	$1.135 \times 10^{-2}$	$-1.038 \times 10^{-3}$	$1.055 \times 10^{-3}$
0.8467	0.0800	$3.903 \times 10^{-2}$	$1.113 \times 10^{-2}$	$-1.437 \times 10^{-3}$	$1.032 \times 10^{-3}$
0.8533	0.0800	$3.548 \times 10^{-2}$	$1.063 \times 10^{-2}$	$-1.443 \times 10^{-3}$	$9.259 \times 10^{-4}$
0.8600	0.0800	$3.171 \times 10^{-2}$	$9.532 \times 10^{-3}$	$-2.280 \times 10^{-3}$	$8.166 \times 10^{-4}$
0.8667	0.0800	$2.906 \times 10^{-2}$	$9.354 \times 10^{-3}$	$-2.187 \times 10^{-3}$	$7.644 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.0800	$2.623 \times 10^{-2}$	$8.175 \times 10^{-3}$	$-2.121 \times 10^{-3}$	$5.174 \times 10^{-4}$
0.8800	0.0800	$2.408 \times 10^{-2}$	$8.111 \times 10^{-3}$	$-2.588 \times 10^{-3}$	$5.751 \times 10^{-4}$
0.8867	0.0800	$2.199 \times 10^{-2}$	$7.606 \times 10^{-3}$	$-2.780 \times 10^{-3}$	$5.912 \times 10^{-4}$
0.8933	0.0800	$2.045 \times 10^{-2}$	$7.661 \times 10^{-3}$	$-3.203 \times 10^{-3}$	$5.560 \times 10^{-4}$
0.9000	0.0800	$1.885 \times 10^{-2}$	$6.777 \times 10^{-3}$	$-2.943 \times 10^{-3}$	$5.484 \times 10^{-4}$
0.9067	0.0800	$1.772 \times 10^{-2}$	$6.365 \times 10^{-3}$	$-2.999 \times 10^{-3}$	$4.368 \times 10^{-4}$
0.9133	0.0800	$1.746 \times 10^{-2}$	$6.033 \times 10^{-3}$	$-3.029 \times 10^{-3}$	$3.425 \times 10^{-4}$
0.9200	0.0800	$1.699 \times 10^{-2}$	$5.835 \times 10^{-3}$	$-3.318 \times 10^{-3}$	$3.920 \times 10^{-4}$
0.9267	0.0800	$1.540 \times 10^{-2}$	$5.411 \times 10^{-3}$	$-2.903 \times 10^{-3}$	$4.320 \times 10^{-4}$
0.9333	0.0800	$1.434 \times 10^{-2}$	$5.194 \times 10^{-3}$	$-2.768 \times 10^{-3}$	$3.888 \times 10^{-4}$
0.9400	0.0800	$1.328 \times 10^{-2}$	$4.595 \times 10^{-3}$	$-2.674 \times 10^{-3}$	$3.059 \times 10^{-4}$
0.9467	0.0800	$1.241 \times 10^{-2}$	$4.251 \times 10^{-3}$	$-2.493 \times 10^{-3}$	$2.743 \times 10^{-4}$
0.9533	0.0800	$1.215 \times 10^{-2}$	$3.987 \times 10^{-3}$	$-2.440 \times 10^{-3}$	$2.677 \times 10^{-4}$
0.9600	0.0800	$1.175 \times 10^{-2}$	$3.798 \times 10^{-3}$	$-2.385 \times 10^{-3}$	$2.465 \times 10^{-4}$
0.9667	0.0800	$1.083 \times 10^{-2}$	$3.752 \times 10^{-3}$	$-2.180 \times 10^{-3}$	$2.085 \times 10^{-4}$
0.9733	0.0800	$1.046 \times 10^{-2}$	$3.680 \times 10^{-3}$	$-2.131 \times 10^{-3}$	$2.142 \times 10^{-4}$
0.9800	0.0800	$9.782 \times 10^{-3}$	$3.475 \times 10^{-3}$	$-2.037 \times 10^{-3}$	$2.086 \times 10^{-4}$
0.9867	0.0800	$9.213 \times 10^{-3}$	$3.368 \times 10^{-3}$	$-1.954 \times 10^{-3}$	$1.983 \times 10^{-4}$
0.9933	0.0800	$8.526 \times 10^{-3}$	$3.135 \times 10^{-3}$	$-1.836 \times 10^{-3}$	$1.756 \times 10^{-4}$
1.0000	0.0800	$7.965 \times 10^{-3}$	$3.015 \times 10^{-3}$	$-1.491 \times 10^{-3}$	$1.808 \times 10^{-4}$
0.4667	0.0867	$3.462 \times 10^{-2}$	$9.719 \times 10^{-3}$	$8.262 \times 10^{-5}$	$4.659 \times 10^{-3}$
0.4733	0.0867	$3.515 \times 10^{-2}$	$9.645 \times 10^{-3}$	$1.152 \times 10^{-4}$	$4.722 \times 10^{-3}$
0.4800	0.0867	$3.817 \times 10^{-2}$	$8.608 \times 10^{-3}$	$6.214 \times 10^{-5}$	$4.856 \times 10^{-3}$
0.4867	0.0867	$3.887 \times 10^{-2}$	$8.371 \times 10^{-3}$	$6.027 \times 10^{-5}$	$4.895 \times 10^{-3}$
0.4933	0.0867	$4.296 \times 10^{-2}$	$7.317 \times 10^{-3}$	$3.716 \times 10^{-4}$	$4.778 \times 10^{-3}$
0.5000	0.0867	$4.392 \times 10^{-2}$	$7.044 \times 10^{-3}$	$4.477 \times 10^{-4}$	$4.752 \times 10^{-3}$
0.5067	0.0867	$4.801 \times 10^{-2}$	$4.824 \times 10^{-3}$	$5.427 \times 10^{-4}$	$4.235 \times 10^{-3}$
0.5133	0.0867	$4.902 \times 10^{-2}$	$4.308 \times 10^{-3}$	$5.590 \times 10^{-4}$	$4.129 \times 10^{-3}$
0.5200	0.0867	$5.337 \times 10^{-2}$	$2.355 \times 10^{-3}$	$8.501 \times 10^{-4}$	$3.876 \times 10^{-3}$
0.5267	0.0867	$5.442 \times 10^{-2}$	$1.938 \times 10^{-3}$	$9.041 \times 10^{-4}$	$3.829 \times 10^{-3}$
0.5333	0.0867	$5.943 \times 10^{-2}$	$8.962 \times 10^{-4}$	$1.077 \times 10^{-3}$	$3.669 \times 10^{-3}$
0.5400	0.0867	$6.054 \times 10^{-2}$	$6.552 \times 10^{-4}$	$1.102 \times 10^{-3}$	$3.623 \times 10^{-3}$
0.5467	0.0867	$6.465 \times 10^{-2}$	$-1.588 \times 10^{-4}$	$1.272 \times 10^{-3}$	$3.350 \times 10^{-3}$
0.5533	0.0867	$6.553 \times 10^{-2}$	$-3.396 \times 10^{-4}$	$1.337 \times 10^{-3}$	$3.286 \times 10^{-3}$
0.5600	0.0867	$6.954 \times 10^{-2}$	$-1.172 \times 10^{-3}$	$1.571 \times 10^{-3}$	$3.044 \times 10^{-3}$
0.5667	0.0867	$7.044 \times 10^{-2}$	$-1.347 \times 10^{-3}$	$1.647 \times 10^{-3}$	$2.988 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.0867	$7.405 \times 10^{-2}$	$-1.836 \times 10^{-3}$	$1.788 \times 10^{-3}$	$2.872 \times 10^{-3}$
0.5800	0.0867	$7.516 \times 10^{-2}$	$-1.974 \times 10^{-3}$	$1.884 \times 10^{-3}$	$2.833 \times 10^{-3}$
0.5867	0.0867	$7.704 \times 10^{-2}$	$-2.180 \times 10^{-3}$	$1.833 \times 10^{-3}$	$2.753 \times 10^{-3}$
0.5933	0.0867	$7.894 \times 10^{-2}$	$-2.361 \times 10^{-3}$	$2.019 \times 10^{-3}$	$2.648 \times 10^{-3}$
0.6000	0.0867	$7.929 \times 10^{-2}$	$-2.401 \times 10^{-3}$	$2.021 \times 10^{-3}$	$2.632 \times 10^{-3}$
0.6067	0.0867	$8.178 \times 10^{-2}$	$-2.706 \times 10^{-3}$	$2.107 \times 10^{-3}$	$2.505 \times 10^{-3}$
0.6133	0.0867	$8.203 \times 10^{-2}$	$-2.741 \times 10^{-3}$	$2.158 \times 10^{-3}$	$2.489 \times 10^{-3}$
0.6200	0.0867	$8.411 \times 10^{-2}$	$-3.227 \times 10^{-3}$	$2.310 \times 10^{-3}$	$2.602 \times 10^{-3}$
0.6267	0.0867	$8.432 \times 10^{-2}$	$-3.286 \times 10^{-3}$	$2.345 \times 10^{-3}$	$2.617 \times 10^{-3}$
0.6333	0.0867	$8.553 \times 10^{-2}$	$-4.137 \times 10^{-3}$	$2.757 \times 10^{-3}$	$2.838 \times 10^{-3}$
0.6400	0.0867	$8.574 \times 10^{-2}$	$-4.312 \times 10^{-3}$	$2.911 \times 10^{-3}$	$2.912 \times 10^{-3}$
0.6467	0.0867	$8.682 \times 10^{-2}$	$-5.315 \times 10^{-3}$	$3.350 \times 10^{-3}$	$3.262 \times 10^{-3}$
0.6533	0.0867	$8.763 \times 10^{-2}$	$-6.144 \times 10^{-3}$	$4.063 \times 10^{-3}$	$3.528 \times 10^{-3}$
0.6600	0.0867	$8.946 \times 10^{-2}$	$-7.700 \times 10^{-3}$	$4.957 \times 10^{-3}$	$4.087 \times 10^{-3}$
0.6667	0.0867	$9.090 \times 10^{-2}$	$-8.362 \times 10^{-3}$	$5.348 \times 10^{-3}$	$4.334 \times 10^{-3}$
0.6733	0.0867	$9.417 \times 10^{-2}$	$-9.839 \times 10^{-3}$	$6.148 \times 10^{-3}$	$4.871 \times 10^{-3}$
0.6800	0.0867	$9.920 \times 10^{-2}$	$-1.131 \times 10^{-2}$	$7.626 \times 10^{-3}$	$5.604 \times 10^{-3}$
0.6867	0.0867	$1.044 \times 10^{-1}$	$-1.209 \times 10^{-2}$	$8.929 \times 10^{-3}$	$6.228 \times 10^{-3}$
0.6933	0.0867	$1.162 \times 10^{-1}$	$-1.356 \times 10^{-2}$	$1.034 \times 10^{-2}$	$7.249 \times 10^{-3}$
0.7000	0.0867	$1.253 \times 10^{-1}$	$-1.369 \times 10^{-2}$	$1.153 \times 10^{-2}$	$8.038 \times 10^{-3}$
0.7067	0.0867	$1.400 \times 10^{-1}$	$-1.272 \times 10^{-2}$	$1.289 \times 10^{-2}$	$9.247 \times 10^{-3}$
0.7133	0.0867	$1.498 \times 10^{-1}$	$-1.069 \times 10^{-2}$	$1.343 \times 10^{-2}$	$9.963 \times 10^{-3}$
0.7200	0.0867	$1.634 \times 10^{-1}$	$-6.438 \times 10^{-3}$	$1.363 \times 10^{-2}$	$1.078 \times 10^{-2}$
0.7267	0.0867	$1.721 \times 10^{-1}$	$-1.367 \times 10^{-3}$	$1.319 \times 10^{-2}$	$1.111 \times 10^{-2}$
0.7333	0.0867	$1.766 \times 10^{-1}$	$4.161 \times 10^{-3}$	$1.153 \times 10^{-2}$	$1.107 \times 10^{-2}$
0.7400	0.0867	$1.744 \times 10^{-1}$	$1.087 \times 10^{-2}$	$9.139 \times 10^{-3}$	$1.038 \times 10^{-2}$
0.7467	0.0867	$1.657 \times 10^{-1}$	$1.531 \times 10^{-2}$	$7.055 \times 10^{-3}$	$9.450 \times 10^{-3}$
0.7533	0.0867	$1.530 \times 10^{-1}$	$1.859 \times 10^{-2}$	$4.528 \times 10^{-3}$	$8.154 \times 10^{-3}$
0.7600	0.0867	$1.381 \times 10^{-1}$	$2.063 \times 10^{-2}$	$2.311 \times 10^{-3}$	$6.872 \times 10^{-3}$
0.7667	0.0867	$1.246 \times 10^{-1}$	$2.096 \times 10^{-2}$	$2.915 \times 10^{-4}$	$5.638 \times 10^{-3}$
0.7733	0.0867	$1.116 \times 10^{-1}$	$2.037 \times 10^{-2}$	$-8.663 \times 10^{-4}$	$4.730 \times 10^{-3}$
0.7800	0.0867	$1.011 \times 10^{-1}$	$1.912 \times 10^{-2}$	$-1.077 \times 10^{-3}$	$4.010 \times 10^{-3}$
0.7867	0.0867	$8.834 \times 10^{-2}$	$1.704 \times 10^{-2}$	$-1.213 \times 10^{-3}$	$3.093 \times 10^{-3}$
0.7933	0.0867	$7.954 \times 10^{-2}$	$1.623 \times 10^{-2}$	$-1.861 \times 10^{-3}$	$2.740 \times 10^{-3}$
0.8000	0.0867	$7.382 \times 10^{-2}$	$1.490 \times 10^{-2}$	$-1.590 \times 10^{-3}$	$2.433 \times 10^{-3}$
0.8067	0.0867	$6.655 \times 10^{-2}$	$1.360 \times 10^{-2}$	$-9.567 \times 10^{-4}$	$2.017 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.0867	$6.365 \times 10^{-2}$	$1.393 \times 10^{-2}$	$-1.046 \times 10^{-3}$	$1.854 \times 10^{-3}$
0.8200	0.0867	$5.792 \times 10^{-2}$	$1.257 \times 10^{-2}$	$-9.734 \times 10^{-4}$	$1.643 \times 10^{-3}$
0.8267	0.0867	$5.208 \times 10^{-2}$	$1.243 \times 10^{-2}$	$-7.411 \times 10^{-4}$	$1.470 \times 10^{-3}$
0.8333	0.0867	$4.846 \times 10^{-2}$	$1.225 \times 10^{-2}$	$-7.131 \times 10^{-4}$	$1.393 \times 10^{-3}$
0.8400	0.0867	$4.515 \times 10^{-2}$	$1.183 \times 10^{-2}$	$-1.008 \times 10^{-3}$	$1.272 \times 10^{-3}$
0.8467	0.0867	$4.005 \times 10^{-2}$	$1.130 \times 10^{-2}$	$-1.441 \times 10^{-3}$	$1.065 \times 10^{-3}$
0.8533	0.0867	$3.651 \times 10^{-2}$	$1.061 \times 10^{-2}$	$-1.678 \times 10^{-3}$	$1.004 \times 10^{-3}$
0.8600	0.0867	$3.241 \times 10^{-2}$	$1.009 \times 10^{-2}$	$-2.308 \times 10^{-3}$	$8.263 \times 10^{-4}$
0.8667	0.0867	$2.834 \times 10^{-2}$	$9.284 \times 10^{-3}$	$-1.991 \times 10^{-3}$	$7.739 \times 10^{-4}$
0.8733	0.0867	$2.802 \times 10^{-2}$	$9.489 \times 10^{-3}$	$-2.406 \times 10^{-3}$	$8.864 \times 10^{-4}$
0.8800	0.0867	$2.541 \times 10^{-2}$	$8.855 \times 10^{-3}$	$-2.403 \times 10^{-3}$	$7.483 \times 10^{-4}$
0.8867	0.0867	$2.277 \times 10^{-2}$	$8.029 \times 10^{-3}$	$-2.881 \times 10^{-3}$	$7.226 \times 10^{-4}$
0.8933	0.0867	$2.181 \times 10^{-2}$	$7.849 \times 10^{-3}$	$-3.492 \times 10^{-3}$	$7.082 \times 10^{-4}$
0.9000	0.0867	$2.122 \times 10^{-2}$	$8.002 \times 10^{-3}$	$-3.245 \times 10^{-3}$	$6.552 \times 10^{-4}$
0.9067	0.0867	$1.927 \times 10^{-2}$	$6.915 \times 10^{-3}$	$-3.147 \times 10^{-3}$	$5.657 \times 10^{-4}$
0.9133	0.0867	$1.825 \times 10^{-2}$	$6.385 \times 10^{-3}$	$-3.138 \times 10^{-3}$	$3.987 \times 10^{-4}$
0.9200	0.0867	$1.707 \times 10^{-2}$	$6.148 \times 10^{-3}$	$-3.322 \times 10^{-3}$	$4.091 \times 10^{-4}$
0.9267	0.0867	$1.590 \times 10^{-2}$	$5.693 \times 10^{-3}$	$-2.716 \times 10^{-3}$	$4.138 \times 10^{-4}$
0.9333	0.0867	$1.556 \times 10^{-2}$	$5.456 \times 10^{-3}$	$-2.736 \times 10^{-3}$	$3.673 \times 10^{-4}$
0.9400	0.0867	$1.437 \times 10^{-2}$	$4.984 \times 10^{-3}$	$-2.805 \times 10^{-3}$	$3.515 \times 10^{-4}$
0.9467	0.0867	$1.274 \times 10^{-2}$	$4.440 \times 10^{-3}$	$-2.538 \times 10^{-3}$	$3.464 \times 10^{-4}$
0.9533	0.0867	$1.274 \times 10^{-2}$	$4.334 \times 10^{-3}$	$-2.523 \times 10^{-3}$	$3.326 \times 10^{-4}$
0.9600	0.0867	$1.275 \times 10^{-2}$	$4.350 \times 10^{-3}$	$-2.612 \times 10^{-3}$	$3.083 \times 10^{-4}$
0.9667	0.0867	$1.176 \times 10^{-2}$	$4.125 \times 10^{-3}$	$-2.517 \times 10^{-3}$	$2.670 \times 10^{-4}$
0.9733	0.0867	$1.088 \times 10^{-2}$	$3.831 \times 10^{-3}$	$-2.254 \times 10^{-3}$	$2.406 \times 10^{-4}$
0.9800	0.0867	$1.042 \times 10^{-2}$	$3.733 \times 10^{-3}$	$-2.141 \times 10^{-3}$	$2.318 \times 10^{-4}$
0.9867	0.0867	$9.601 \times 10^{-3}$	$3.580 \times 10^{-3}$	$-2.023 \times 10^{-3}$	$2.134 \times 10^{-4}$
0.9933	0.0867	$9.260 \times 10^{-3}$	$3.521 \times 10^{-3}$	$-1.938 \times 10^{-3}$	$1.988 \times 10^{-4}$
1.0000	0.0867	$9.263 \times 10^{-3}$	$3.553 \times 10^{-3}$	$-1.948 \times 10^{-3}$	$1.941 \times 10^{-4}$
0.4667	0.0933	$3.430 \times 10^{-2}$	$9.875 \times 10^{-3}$	$9.170 \times 10^{-5}$	$4.629 \times 10^{-3}$
0.4733	0.0933	$3.524 \times 10^{-2}$	$9.621 \times 10^{-3}$	$1.204 \times 10^{-4}$	$4.721 \times 10^{-3}$
0.4800	0.0933	$3.763 \times 10^{-2}$	$8.830 \times 10^{-3}$	$1.104 \times 10^{-4}$	$4.830 \times 10^{-3}$
0.4867	0.0933	$3.902 \times 10^{-2}$	$8.367 \times 10^{-3}$	$1.063 \times 10^{-4}$	$4.885 \times 10^{-3}$
0.4933	0.0933	$4.233 \times 10^{-2}$	$7.534 \times 10^{-3}$	$3.965 \times 10^{-4}$	$4.795 \times 10^{-3}$
0.5000	0.0933	$4.404 \times 10^{-2}$	$6.942 \times 10^{-3}$	$4.787 \times 10^{-4}$	$4.713 \times 10^{-3}$
0.5067	0.0933	$4.735 \times 10^{-2}$	$5.141 \times 10^{-3}$	$6.197 \times 10^{-4}$	$4.279 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.0933	$4.914 \times 10^{-2}$	$4.246 \times 10^{-3}$	$6.089 \times 10^{-4}$	$4.113 \times 10^{-3}$
0.5200	0.0933	$5.265 \times 10^{-2}$	$2.664 \times 10^{-3}$	$8.809 \times 10^{-4}$	$3.885 \times 10^{-3}$
0.5267	0.0933	$5.458 \times 10^{-2}$	$1.952 \times 10^{-3}$	$9.279 \times 10^{-4}$	$3.823 \times 10^{-3}$
0.5333	0.0933	$5.858 \times 10^{-2}$	$1.138 \times 10^{-3}$	$1.091 \times 10^{-3}$	$3.697 \times 10^{-3}$
0.5400	0.0933	$6.061 \times 10^{-2}$	$6.702 \times 10^{-4}$	$1.137 \times 10^{-3}$	$3.619 \times 10^{-3}$
0.5467	0.0933	$6.386 \times 10^{-2}$	$5.475 \times 10^{-5}$	$1.339 \times 10^{-3}$	$3.416 \times 10^{-3}$
0.5533	0.0933	$6.559 \times 10^{-2}$	$-3.476 \times 10^{-4}$	$1.379 \times 10^{-3}$	$3.283 \times 10^{-3}$
0.5600	0.0933	$6.871 \times 10^{-2}$	$-1.003 \times 10^{-3}$	$1.618 \times 10^{-3}$	$3.084 \times 10^{-3}$
0.5667	0.0933	$7.047 \times 10^{-2}$	$-1.348 \times 10^{-3}$	$1.672 \times 10^{-3}$	$2.989 \times 10^{-3}$
0.5733	0.0933	$7.326 \times 10^{-2}$	$-1.747 \times 10^{-3}$	$1.838 \times 10^{-3}$	$2.896 \times 10^{-3}$
0.5800	0.0933	$7.512 \times 10^{-2}$	$-1.967 \times 10^{-3}$	$1.900 \times 10^{-3}$	$2.834 \times 10^{-3}$
0.5867	0.0933	$7.651 \times 10^{-2}$	$-2.098 \times 10^{-3}$	$2.052 \times 10^{-3}$	$2.770 \times 10^{-3}$
0.5933	0.0933	$7.877 \times 10^{-2}$	$-2.338 \times 10^{-3}$	$2.048 \times 10^{-3}$	$2.653 \times 10^{-3}$
0.6000	0.0933	$7.926 \times 10^{-2}$	$-2.381 \times 10^{-3}$	$2.083 \times 10^{-3}$	$2.618 \times 10^{-3}$
0.6067	0.0933	$8.101 \times 10^{-2}$	$-2.579 \times 10^{-3}$	$2.201 \times 10^{-3}$	$2.521 \times 10^{-3}$
0.6133	0.0933	$8.205 \times 10^{-2}$	$-2.755 \times 10^{-3}$	$2.262 \times 10^{-3}$	$2.511 \times 10^{-3}$
0.6200	0.0933	$8.276 \times 10^{-2}$	$-2.931 \times 10^{-3}$	$2.515 \times 10^{-3}$	$2.570 \times 10^{-3}$
0.6267	0.0933	$8.430 \times 10^{-2}$	$-3.404 \times 10^{-3}$	$2.696 \times 10^{-3}$	$2.683 \times 10^{-3}$
0.6333	0.0933	$8.459 \times 10^{-2}$	$-3.539 \times 10^{-3}$	$2.850 \times 10^{-3}$	$2.729 \times 10^{-3}$
0.6400	0.0933	$8.569 \times 10^{-2}$	$-4.207 \times 10^{-3}$	$3.370 \times 10^{-3}$	$2.975 \times 10^{-3}$
0.6467	0.0933	$8.594 \times 10^{-2}$	$-4.485 \times 10^{-3}$	$3.499 \times 10^{-3}$	$3.052 \times 10^{-3}$
0.6533	0.0933	$8.734 \times 10^{-2}$	$-5.903 \times 10^{-3}$	$4.083 \times 10^{-3}$	$3.451 \times 10^{-3}$
0.6600	0.0933	$8.797 \times 10^{-2}$	$-6.826 \times 10^{-3}$	$4.836 \times 10^{-3}$	$3.733 \times 10^{-3}$
0.6667	0.0933	$9.090 \times 10^{-2}$	$-8.171 \times 10^{-3}$	$5.815 \times 10^{-3}$	$4.351 \times 10^{-3}$
0.6733	0.0933	$9.318 \times 10^{-2}$	$-9.122 \times 10^{-3}$	$6.423 \times 10^{-3}$	$4.737 \times 10^{-3}$
0.6800	0.0933	$9.773 \times 10^{-2}$	$-1.068 \times 10^{-2}$	$7.634 \times 10^{-3}$	$5.429 \times 10^{-3}$
0.6867	0.0933	$1.018 \times 10^{-1}$	$-1.143 \times 10^{-2}$	$8.722 \times 10^{-3}$	$5.951 \times 10^{-3}$
0.6933	0.0933	$1.087 \times 10^{-1}$	$-1.250 \times 10^{-2}$	$9.996 \times 10^{-3}$	$6.709 \times 10^{-3}$
0.7000	0.0933	$1.205 \times 10^{-1}$	$-1.330 \times 10^{-2}$	$1.161 \times 10^{-2}$	$7.677 \times 10^{-3}$
0.7067	0.0933	$1.283 \times 10^{-1}$	$-1.297 \times 10^{-2}$	$1.279 \times 10^{-2}$	$8.368 \times 10^{-3}$
0.7133	0.0933	$1.404 \times 10^{-1}$	$-1.181 \times 10^{-2}$	$1.404 \times 10^{-2}$	$9.294 \times 10^{-3}$
0.7200	0.0933	$1.532 \times 10^{-1}$	$-8.282 \times 10^{-3}$	$1.543 \times 10^{-2}$	$1.018 \times 10^{-2}$
0.7267	0.0933	$1.649 \times 10^{-1}$	$-4.097 \times 10^{-3}$	$1.470 \times 10^{-2}$	$1.086 \times 10^{-2}$
0.7333	0.0933	$1.726 \times 10^{-1}$	$1.467 \times 10^{-3}$	$1.382 \times 10^{-2}$	$1.111 \times 10^{-2}$
0.7400	0.0933	$1.728 \times 10^{-1}$	$7.361 \times 10^{-3}$	$1.182 \times 10^{-2}$	$1.071 \times 10^{-2}$
0.7467	0.0933	$1.687 \times 10^{-1}$	$1.255 \times 10^{-2}$	$9.102 \times 10^{-3}$	$9.854 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.0933	$1.584 \times 10^{-1}$	$1.641 \times 10^{-2}$	$6.379 \times 10^{-3}$	$8.614 \times 10^{-3}$
0.7600	0.0933	$1.473 \times 10^{-1}$	$1.944 \times 10^{-2}$	$3.788 \times 10^{-3}$	$7.605 \times 10^{-3}$
0.7667	0.0933	$1.341 \times 10^{-1}$	$2.078 \times 10^{-2}$	$1.686 \times 10^{-3}$	$6.475 \times 10^{-3}$
0.7733	0.0933	$1.183 \times 10^{-1}$	$2.062 \times 10^{-2}$	$-9.138 \times 10^{-5}$	$5.167 \times 10^{-3}$
0.7800	0.0933	$1.033 \times 10^{-1}$	$1.963 \times 10^{-2}$	$-1.339 \times 10^{-3}$	$4.127 \times 10^{-3}$
0.7867	0.0933	$9.185 \times 10^{-2}$	$1.790 \times 10^{-2}$	$-1.648 \times 10^{-3}$	$3.373 \times 10^{-3}$
0.7933	0.0933	$8.318 \times 10^{-2}$	$1.691 \times 10^{-2}$	$-1.846 \times 10^{-3}$	$2.954 \times 10^{-3}$
0.8000	0.0933	$7.502 \times 10^{-2}$	$1.564 \times 10^{-2}$	$-2.015 \times 10^{-3}$	$2.432 \times 10^{-3}$
0.8067	0.0933	$6.939 \times 10^{-2}$	$1.455 \times 10^{-2}$	$-1.911 \times 10^{-3}$	$2.181 \times 10^{-3}$
0.8133	0.0933	$6.333 \times 10^{-2}$	$1.373 \times 10^{-2}$	$-1.770 \times 10^{-3}$	$1.994 \times 10^{-3}$
0.8200	0.0933	$5.890 \times 10^{-2}$	$1.298 \times 10^{-2}$	$-1.650 \times 10^{-3}$	$1.746 \times 10^{-3}$
0.8267	0.0933	$5.186 \times 10^{-2}$	$1.274 \times 10^{-2}$	$-1.524 \times 10^{-3}$	$1.586 \times 10^{-3}$
0.8333	0.0933	$5.027 \times 10^{-2}$	$1.313 \times 10^{-2}$	$-1.561 \times 10^{-3}$	$1.605 \times 10^{-3}$
0.8400	0.0933	$4.550 \times 10^{-2}$	$1.210 \times 10^{-2}$	$-1.470 \times 10^{-3}$	$1.292 \times 10^{-3}$
0.8467	0.0933	$4.168 \times 10^{-2}$	$1.115 \times 10^{-2}$	$-1.630 \times 10^{-3}$	$1.107 \times 10^{-3}$
0.8533	0.0933	$3.917 \times 10^{-2}$	$1.069 \times 10^{-2}$	$-2.099 \times 10^{-3}$	$1.055 \times 10^{-3}$
0.8600	0.0933	$3.525 \times 10^{-2}$	$1.025 \times 10^{-2}$	$-2.435 \times 10^{-3}$	$9.772 \times 10^{-4}$
0.8667	0.0933	$3.091 \times 10^{-2}$	$9.865 \times 10^{-3}$	$-2.354 \times 10^{-3}$	$9.127 \times 10^{-4}$
0.8733	0.0933	$2.996 \times 10^{-2}$	$1.000 \times 10^{-2}$	$-2.576 \times 10^{-3}$	$9.352 \times 10^{-4}$
0.8800	0.0933	$2.639 \times 10^{-2}$	$9.159 \times 10^{-3}$	$-2.709 \times 10^{-3}$	$7.922 \times 10^{-4}$
0.8867	0.0933	$2.473 \times 10^{-2}$	$9.181 \times 10^{-3}$	$-2.801 \times 10^{-3}$	$8.439 \times 10^{-4}$
0.8933	0.0933	$2.400 \times 10^{-2}$	$8.727 \times 10^{-3}$	$-3.150 \times 10^{-3}$	$7.840 \times 10^{-4}$
0.9000	0.0933	$2.207 \times 10^{-2}$	$8.011 \times 10^{-3}$	$-2.984 \times 10^{-3}$	$7.192 \times 10^{-4}$
0.9067	0.0933	$1.971 \times 10^{-2}$	$6.879 \times 10^{-3}$	$-3.347 \times 10^{-3}$	$6.899 \times 10^{-4}$
0.9133	0.0933	$1.836 \times 10^{-2}$	$6.452 \times 10^{-3}$	$-2.805 \times 10^{-3}$	$4.566 \times 10^{-4}$
0.9200	0.0933	$1.786 \times 10^{-2}$	$6.527 \times 10^{-3}$	$-2.646 \times 10^{-3}$	$4.652 \times 10^{-4}$
0.9267	0.0933	$1.699 \times 10^{-2}$	$6.335 \times 10^{-3}$	$-2.758 \times 10^{-3}$	$4.625 \times 10^{-4}$
0.9333	0.0933	$1.625 \times 10^{-2}$	$5.907 \times 10^{-3}$	$-2.914 \times 10^{-3}$	$4.208 \times 10^{-4}$
0.9400	0.0933	$1.542 \times 10^{-2}$	$5.384 \times 10^{-3}$	$-2.666 \times 10^{-3}$	$4.005 \times 10^{-4}$
0.9467	0.0933	$1.426 \times 10^{-2}$	$5.078 \times 10^{-3}$	$-2.777 \times 10^{-3}$	$4.107 \times 10^{-4}$
0.9533	0.0933	$1.350 \times 10^{-2}$	$4.775 \times 10^{-3}$	$-2.707 \times 10^{-3}$	$3.579 \times 10^{-4}$
0.9600	0.0933	$1.311 \times 10^{-2}$	$4.575 \times 10^{-3}$	$-2.733 \times 10^{-3}$	$3.094 \times 10^{-4}$
0.9667	0.0933	$1.264 \times 10^{-2}$	$4.371 \times 10^{-3}$	$-2.750 \times 10^{-3}$	$2.824 \times 10^{-4}$
0.9733	0.0933	$1.148 \times 10^{-2}$	$3.912 \times 10^{-3}$	$-2.413 \times 10^{-3}$	$2.908 \times 10^{-4}$
0.9800	0.0933	$1.079 \times 10^{-2}$	$3.835 \times 10^{-3}$	$-2.191 \times 10^{-3}$	$2.452 \times 10^{-4}$
0.9867	0.0933	$1.030 \times 10^{-2}$	$3.919 \times 10^{-3}$	$-2.152 \times 10^{-3}$	$2.363 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.0933	$9.926 \times 10^{-3}$	$3.878 \times 10^{-3}$	$-2.079 \times 10^{-3}$	$2.263 \times 10^{-4}$
1.0000	0.0933	$9.512 \times 10^{-3}$	$3.810 \times 10^{-3}$	$-1.978 \times 10^{-3}$	$2.107 \times 10^{-4}$
0.4667	0.1000	$3.340 \times 10^{-2}$	$1.021 \times 10^{-2}$	$7.533 \times 10^{-5}$	$4.532 \times 10^{-3}$
0.4733	0.1000	$3.587 \times 10^{-2}$	$9.456 \times 10^{-3}$	$1.636 \times 10^{-4}$	$4.729 \times 10^{-3}$
0.4800	0.1000	$3.623 \times 10^{-2}$	$9.351 \times 10^{-3}$	$1.746 \times 10^{-4}$	$4.758 \times 10^{-3}$
0.4867	0.1000	$4.017 \times 10^{-2}$	$8.307 \times 10^{-3}$	$3.789 \times 10^{-4}$	$4.861 \times 10^{-3}$
0.4933	0.1000	$4.079 \times 10^{-2}$	$8.159 \times 10^{-3}$	$4.160 \times 10^{-4}$	$4.878 \times 10^{-3}$
0.5000	0.1000	$4.503 \times 10^{-2}$	$6.245 \times 10^{-3}$	$7.286 \times 10^{-4}$	$4.451 \times 10^{-3}$
0.5067	0.1000	$4.569 \times 10^{-2}$	$5.937 \times 10^{-3}$	$7.906 \times 10^{-4}$	$4.376 \times 10^{-3}$
0.5133	0.1000	$5.012 \times 10^{-2}$	$3.635 \times 10^{-3}$	$9.209 \times 10^{-4}$	$3.941 \times 10^{-3}$
0.5200	0.1000	$5.083 \times 10^{-2}$	$3.270 \times 10^{-3}$	$9.565 \times 10^{-4}$	$3.869 \times 10^{-3}$
0.5267	0.1000	$5.590 \times 10^{-2}$	$1.868 \times 10^{-3}$	$1.086 \times 10^{-3}$	$3.790 \times 10^{-3}$
0.5333	0.1000	$5.672 \times 10^{-2}$	$1.653 \times 10^{-3}$	$1.109 \times 10^{-3}$	$3.776 \times 10^{-3}$
0.5400	0.1000	$6.149 \times 10^{-2}$	$6.793 \times 10^{-4}$	$1.386 \times 10^{-3}$	$3.609 \times 10^{-3}$
0.5467	0.1000	$6.225 \times 10^{-2}$	$5.367 \times 10^{-4}$	$1.436 \times 10^{-3}$	$3.586 \times 10^{-3}$
0.5533	0.1000	$6.626 \times 10^{-2}$	$-4.987 \times 10^{-4}$	$1.638 \times 10^{-3}$	$3.218 \times 10^{-3}$
0.5600	0.1000	$6.691 \times 10^{-2}$	$-6.560 \times 10^{-4}$	$1.678 \times 10^{-3}$	$3.165 \times 10^{-3}$
0.5667	0.1000	$7.111 \times 10^{-2}$	$-1.485 \times 10^{-3}$	$1.824 \times 10^{-3}$	$2.970 \times 10^{-3}$
0.5733	0.1000	$7.183 \times 10^{-2}$	$-1.625 \times 10^{-3}$	$1.850 \times 10^{-3}$	$2.939 \times 10^{-3}$
0.5800	0.1000	$7.514 \times 10^{-2}$	$-1.953 \times 10^{-3}$	$2.073 \times 10^{-3}$	$2.825 \times 10^{-3}$
0.5867	0.1000	$7.645 \times 10^{-2}$	$-2.084 \times 10^{-3}$	$2.181 \times 10^{-3}$	$2.780 \times 10^{-3}$
0.5933	0.1000	$7.746 \times 10^{-2}$	$-2.168 \times 10^{-3}$	$2.171 \times 10^{-3}$	$2.713 \times 10^{-3}$
0.6000	0.1000	$7.992 \times 10^{-2}$	$-2.378 \times 10^{-3}$	$2.252 \times 10^{-3}$	$2.527 \times 10^{-3}$
0.6067	0.1000	$8.004 \times 10^{-2}$	$-2.387 \times 10^{-3}$	$2.261 \times 10^{-3}$	$2.516 \times 10^{-3}$
0.6133	0.1000	$8.194 \times 10^{-2}$	$-2.747 \times 10^{-3}$	$2.500 \times 10^{-3}$	$2.551 \times 10^{-3}$
0.6200	0.1000	$8.237 \times 10^{-2}$	$-2.835 \times 10^{-3}$	$2.578 \times 10^{-3}$	$2.559 \times 10^{-3}$
0.6267	0.1000	$8.368 \times 10^{-2}$	$-3.197 \times 10^{-3}$	$2.738 \times 10^{-3}$	$2.649 \times 10^{-3}$
0.6333	0.1000	$8.450 \times 10^{-2}$	$-3.499 \times 10^{-3}$	$2.911 \times 10^{-3}$	$2.728 \times 10^{-3}$
0.6400	0.1000	$8.485 \times 10^{-2}$	$-3.688 \times 10^{-3}$	$3.168 \times 10^{-3}$	$2.797 \times 10^{-3}$
0.6467	0.1000	$8.583 \times 10^{-2}$	$-4.624 \times 10^{-3}$	$3.830 \times 10^{-3}$	$3.080 \times 10^{-3}$
0.6533	0.1000	$8.611 \times 10^{-2}$	$-4.965 \times 10^{-3}$	$3.997 \times 10^{-3}$	$3.183 \times 10^{-3}$
0.6600	0.1000	$8.761 \times 10^{-2}$	$-6.661 \times 10^{-3}$	$4.841 \times 10^{-3}$	$3.668 \times 10^{-3}$
0.6667	0.1000	$8.878 \times 10^{-2}$	$-7.312 \times 10^{-3}$	$5.605 \times 10^{-3}$	$4.001 \times 10^{-3}$
0.6733	0.1000	$9.266 \times 10^{-2}$	$-8.892 \times 10^{-3}$	$6.775 \times 10^{-3}$	$4.783 \times 10^{-3}$
0.6800	0.1000	$9.508 \times 10^{-2}$	$-9.662 \times 10^{-3}$	$7.520 \times 10^{-3}$	$5.138 \times 10^{-3}$
0.6867	0.1000	$1.015 \times 10^{-1}$	$-1.121 \times 10^{-2}$	$9.165 \times 10^{-3}$	$5.964 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.1000	$1.049 \times 10^{-1}$	$-1.175 \times 10^{-2}$	$9.916 \times 10^{-3}$	$6.341 \times 10^{-3}$
0.7000	0.1000	$1.138 \times 10^{-1}$	$-1.243 \times 10^{-2}$	$1.160 \times 10^{-2}$	$7.150 \times 10^{-3}$
0.7067	0.1000	$1.256 \times 10^{-1}$	$-1.199 \times 10^{-2}$	$1.362 \times 10^{-2}$	$8.172 \times 10^{-3}$
0.7133	0.1000	$1.389 \times 10^{-1}$	$-1.075 \times 10^{-2}$	$1.473 \times 10^{-2}$	$9.245 \times 10^{-3}$
0.7200	0.1000	$1.507 \times 10^{-1}$	$-8.193 \times 10^{-3}$	$1.560 \times 10^{-2}$	$1.002 \times 10^{-2}$
0.7267	0.1000	$1.608 \times 10^{-1}$	$-4.634 \times 10^{-3}$	$1.529 \times 10^{-2}$	$1.059 \times 10^{-2}$
0.7333	0.1000	$1.675 \times 10^{-1}$	$-3.359 \times 10^{-4}$	$1.457 \times 10^{-2}$	$1.087 \times 10^{-2}$
0.7400	0.1000	$1.697 \times 10^{-1}$	$4.126 \times 10^{-3}$	$1.323 \times 10^{-2}$	$1.085 \times 10^{-2}$
0.7467	0.1000	$1.699 \times 10^{-1}$	$9.336 \times 10^{-3}$	$1.089 \times 10^{-2}$	$1.025 \times 10^{-2}$
0.7533	0.1000	$1.652 \times 10^{-1}$	$1.401 \times 10^{-2}$	$8.491 \times 10^{-3}$	$9.179 \times 10^{-3}$
0.7600	0.1000	$1.534 \times 10^{-1}$	$1.783 \times 10^{-2}$	$5.289 \times 10^{-3}$	$8.095 \times 10^{-3}$
0.7667	0.1000	$1.401 \times 10^{-1}$	$2.010 \times 10^{-2}$	$2.644 \times 10^{-3}$	$6.922 \times 10^{-3}$
0.7733	0.1000	$1.247 \times 10^{-1}$	$2.059 \times 10^{-2}$	$4.949 \times 10^{-4}$	$5.703 \times 10^{-3}$
0.7800	0.1000	$1.111 \times 10^{-1}$	$2.005 \times 10^{-2}$	$-1.218 \times 10^{-3}$	$4.763 \times 10^{-3}$
0.7867	0.1000	$9.961 \times 10^{-2}$	$1.875 \times 10^{-2}$	$-2.060 \times 10^{-3}$	$3.952 \times 10^{-3}$
0.7933	0.1000	$9.028 \times 10^{-2}$	$1.800 \times 10^{-2}$	$-2.254 \times 10^{-3}$	$3.373 \times 10^{-3}$
0.8000	0.1000	$7.936 \times 10^{-2}$	$1.604 \times 10^{-2}$	$-2.542 \times 10^{-3}$	$2.694 \times 10^{-3}$
0.8067	0.1000	$7.232 \times 10^{-2}$	$1.463 \times 10^{-2}$	$-2.227 \times 10^{-3}$	$2.339 \times 10^{-3}$
0.8133	0.1000	$6.636 \times 10^{-2}$	$1.409 \times 10^{-2}$	$-2.188 \times 10^{-3}$	$2.124 \times 10^{-3}$
0.8200	0.1000	$5.992 \times 10^{-2}$	$1.337 \times 10^{-2}$	$-2.140 \times 10^{-3}$	$1.814 \times 10^{-3}$
0.8267	0.1000	$5.516 \times 10^{-2}$	$1.323 \times 10^{-2}$	$-2.220 \times 10^{-3}$	$1.738 \times 10^{-3}$
0.8333	0.1000	$5.119 \times 10^{-2}$	$1.311 \times 10^{-2}$	$-2.152 \times 10^{-3}$	$1.607 \times 10^{-3}$
0.8400	0.1000	$4.712 \times 10^{-2}$	$1.236 \times 10^{-2}$	$-1.873 \times 10^{-3}$	$1.504 \times 10^{-3}$
0.8467	0.1000	$4.239 \times 10^{-2}$	$1.140 \times 10^{-2}$	$-2.581 \times 10^{-3}$	$1.301 \times 10^{-3}$
0.8533	0.1000	$3.953 \times 10^{-2}$	$1.054 \times 10^{-2}$	$-2.981 \times 10^{-3}$	$1.167 \times 10^{-3}$
0.8600	0.1000	$3.701 \times 10^{-2}$	$1.006 \times 10^{-2}$	$-2.922 \times 10^{-3}$	$1.084 \times 10^{-3}$
0.8667	0.1000	$3.466 \times 10^{-2}$	$9.384 \times 10^{-3}$	$-2.644 \times 10^{-3}$	$9.096 \times 10^{-4}$
0.8733	0.1000	$3.138 \times 10^{-2}$	$9.356 \times 10^{-3}$	$-2.654 \times 10^{-3}$	$9.366 \times 10^{-4}$
0.8800	0.1000	$2.742 \times 10^{-2}$	$9.186 \times 10^{-3}$	$-2.829 \times 10^{-3}$	$7.739 \times 10^{-4}$
0.8867	0.1000	$2.566 \times 10^{-2}$	$9.284 \times 10^{-3}$	$-3.193 \times 10^{-3}$	$8.908 \times 10^{-4}$
0.8933	0.1000	$2.523 \times 10^{-2}$	$8.719 \times 10^{-3}$	$-2.927 \times 10^{-3}$	$8.016 \times 10^{-4}$
0.9000	0.1000	$2.338 \times 10^{-2}$	$8.142 \times 10^{-3}$	$-3.051 \times 10^{-3}$	$7.738 \times 10^{-4}$
0.9067	0.1000	$2.143 \times 10^{-2}$	$7.646 \times 10^{-3}$	$-3.037 \times 10^{-3}$	$6.950 \times 10^{-4}$
0.9133	0.1000	$2.035 \times 10^{-2}$	$7.229 \times 10^{-3}$	$-3.294 \times 10^{-3}$	$6.127 \times 10^{-4}$
0.9200	0.1000	$1.889 \times 10^{-2}$	$6.960 \times 10^{-3}$	$-2.900 \times 10^{-3}$	$5.393 \times 10^{-4}$
0.9267	0.1000	$1.735 \times 10^{-2}$	$6.348 \times 10^{-3}$	$-2.925 \times 10^{-3}$	$5.223 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.1000	$1.691 \times 10^{-2}$	$6.079 \times 10^{-3}$	$-2.975 \times 10^{-3}$	$5.205 \times 10^{-4}$
0.9400	0.1000	$1.637 \times 10^{-2}$	$5.854 \times 10^{-3}$	$-2.807 \times 10^{-3}$	$4.755 \times 10^{-4}$
0.9467	0.1000	$1.502 \times 10^{-2}$	$5.354 \times 10^{-3}$	$-2.760 \times 10^{-3}$	$4.003 \times 10^{-4}$
0.9533	0.1000	$1.452 \times 10^{-2}$	$5.030 \times 10^{-3}$	$-2.721 \times 10^{-3}$	$4.041 \times 10^{-4}$
0.9600	0.1000	$1.342 \times 10^{-2}$	$4.817 \times 10^{-3}$	$-2.740 \times 10^{-3}$	$3.241 \times 10^{-4}$
0.9667	0.1000	$1.294 \times 10^{-2}$	$4.593 \times 10^{-3}$	$-2.567 \times 10^{-3}$	$2.696 \times 10^{-4}$
0.9733	0.1000	$1.250 \times 10^{-2}$	$4.445 \times 10^{-3}$	$-2.465 \times 10^{-3}$	$2.592 \times 10^{-4}$
0.9800	0.1000	$1.158 \times 10^{-2}$	$4.125 \times 10^{-3}$	$-2.374 \times 10^{-3}$	$2.587 \times 10^{-4}$
0.9867	0.1000	$1.036 \times 10^{-2}$	$4.009 \times 10^{-3}$	$-2.179 \times 10^{-3}$	$2.406 \times 10^{-4}$
0.9933	0.1000	$1.017 \times 10^{-2}$	$4.001 \times 10^{-3}$	$-2.143 \times 10^{-3}$	$2.372 \times 10^{-4}$
1.0000	0.1000	$9.703 \times 10^{-3}$	$4.020 \times 10^{-3}$	$-1.998 \times 10^{-3}$	$2.239 \times 10^{-4}$
0.4667	0.1067	$3.389 \times 10^{-2}$	$1.008 \times 10^{-2}$	$1.463 \times 10^{-4}$	$4.575 \times 10^{-3}$
0.4733	0.1067	$3.516 \times 10^{-2}$	$9.661 \times 10^{-3}$	$2.231 \times 10^{-4}$	$4.655 \times 10^{-3}$
0.4800	0.1067	$3.680 \times 10^{-2}$	$9.206 \times 10^{-3}$	$3.025 \times 10^{-4}$	$4.756 \times 10^{-3}$
0.4867	0.1067	$3.872 \times 10^{-2}$	$8.693 \times 10^{-3}$	$4.830 \times 10^{-4}$	$4.801 \times 10^{-3}$
0.4933	0.1067	$4.137 \times 10^{-2}$	$7.885 \times 10^{-3}$	$5.372 \times 10^{-4}$	$4.776 \times 10^{-3}$
0.5000	0.1067	$4.366 \times 10^{-2}$	$6.938 \times 10^{-3}$	$7.140 \times 10^{-4}$	$4.580 \times 10^{-3}$
0.5067	0.1067	$4.613 \times 10^{-2}$	$5.565 \times 10^{-3}$	$8.470 \times 10^{-4}$	$4.269 \times 10^{-3}$
0.5133	0.1067	$4.832 \times 10^{-2}$	$4.319 \times 10^{-3}$	$9.765 \times 10^{-4}$	$3.993 \times 10^{-3}$
0.5200	0.1067	$5.136 \times 10^{-2}$	$3.175 \times 10^{-3}$	$1.048 \times 10^{-3}$	$3.874 \times 10^{-3}$
0.5267	0.1067	$5.394 \times 10^{-2}$	$2.428 \times 10^{-3}$	$1.178 \times 10^{-3}$	$3.822 \times 10^{-3}$
0.5333	0.1067	$5.714 \times 10^{-2}$	$1.638 \times 10^{-3}$	$1.260 \times 10^{-3}$	$3.767 \times 10^{-3}$
0.5400	0.1067	$5.958 \times 10^{-2}$	$1.146 \times 10^{-3}$	$1.463 \times 10^{-3}$	$3.698 \times 10^{-3}$
0.5467	0.1067	$6.238 \times 10^{-2}$	$4.290 \times 10^{-4}$	$1.556 \times 10^{-3}$	$3.498 \times 10^{-3}$
0.5533	0.1067	$6.434 \times 10^{-2}$	$-1.212 \times 10^{-4}$	$1.729 \times 10^{-3}$	$3.285 \times 10^{-3}$
0.5600	0.1067	$6.715 \times 10^{-2}$	$-7.665 \times 10^{-4}$	$1.793 \times 10^{-3}$	$3.126 \times 10^{-3}$
0.5667	0.1067	$6.920 \times 10^{-2}$	$-1.239 \times 10^{-3}$	$1.940 \times 10^{-3}$	$3.004 \times 10^{-3}$
0.5733	0.1067	$7.194 \times 10^{-2}$	$-1.612 \times 10^{-3}$	$1.961 \times 10^{-3}$	$2.931 \times 10^{-3}$
0.5800	0.1067	$7.364 \times 10^{-2}$	$-1.797 \times 10^{-3}$	$2.115 \times 10^{-3}$	$2.876 \times 10^{-3}$
0.5867	0.1067	$7.628 \times 10^{-2}$	$-2.034 \times 10^{-3}$	$2.192 \times 10^{-3}$	$2.774 \times 10^{-3}$
0.5933	0.1067	$7.752 \times 10^{-2}$	$-2.076 \times 10^{-3}$	$2.252 \times 10^{-3}$	$2.697 \times 10^{-3}$
0.6000	0.1067	$7.911 \times 10^{-2}$	$-2.271 \times 10^{-3}$	$2.284 \times 10^{-3}$	$2.596 \times 10^{-3}$
0.6067	0.1067	$8.021 \times 10^{-2}$	$-2.413 \times 10^{-3}$	$2.357 \times 10^{-3}$	$2.550 \times 10^{-3}$
0.6133	0.1067	$8.078 \times 10^{-2}$	$-2.500 \times 10^{-3}$	$2.461 \times 10^{-3}$	$2.563 \times 10^{-3}$
0.6200	0.1067	$8.241 \times 10^{-2}$	$-2.794 \times 10^{-3}$	$2.612 \times 10^{-3}$	$2.572 \times 10^{-3}$
0.6267	0.1067	$8.300 \times 10^{-2}$	$-2.883 \times 10^{-3}$	$2.656 \times 10^{-3}$	$2.578 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.1067	$8.399 \times 10^{-2}$	$-3.281 \times 10^{-3}$	$2.976 \times 10^{-3}$	$2.692 \times 10^{-3}$
0.6400	0.1067	$8.467 \times 10^{-2}$	$-3.569 \times 10^{-3}$	$3.135 \times 10^{-3}$	$2.762 \times 10^{-3}$
0.6467	0.1067	$8.487 \times 10^{-2}$	$-4.146 \times 10^{-3}$	$3.600 \times 10^{-3}$	$2.960 \times 10^{-3}$
0.6533	0.1067	$8.592 \times 10^{-2}$	$-5.282 \times 10^{-3}$	$4.187 \times 10^{-3}$	$3.329 \times 10^{-3}$
0.6600	0.1067	$8.616 \times 10^{-2}$	$-5.517 \times 10^{-3}$	$4.353 \times 10^{-3}$	$3.412 \times 10^{-3}$
0.6667	0.1067	$8.846 \times 10^{-2}$	$-7.082 \times 10^{-3}$	$5.609 \times 10^{-3}$	$3.951 \times 10^{-3}$
0.6733	0.1067	$9.038 \times 10^{-2}$	$-7.841 \times 10^{-3}$	$6.925 \times 10^{-3}$	$4.415 \times 10^{-3}$
0.6800	0.1067	$9.382 \times 10^{-2}$	$-9.189 \times 10^{-3}$	$7.784 \times 10^{-3}$	$5.004 \times 10^{-3}$
0.6867	0.1067	$9.673 \times 10^{-2}$	$-1.008 \times 10^{-2}$	$8.507 \times 10^{-3}$	$5.431 \times 10^{-3}$
0.6933	0.1067	$1.030 \times 10^{-1}$	$-1.118 \times 10^{-2}$	$1.014 \times 10^{-2}$	$6.150 \times 10^{-3}$
0.7000	0.1067	$1.129 \times 10^{-1}$	$-1.171 \times 10^{-2}$	$1.223 \times 10^{-2}$	$7.086 \times 10^{-3}$
0.7067	0.1067	$1.205 \times 10^{-1}$	$-1.147 \times 10^{-2}$	$1.327 \times 10^{-2}$	$7.762 \times 10^{-3}$
0.7133	0.1067	$1.280 \times 10^{-1}$	$-1.082 \times 10^{-2}$	$1.423 \times 10^{-2}$	$8.424 \times 10^{-3}$
0.7200	0.1067	$1.399 \times 10^{-1}$	$-9.669 \times 10^{-3}$	$1.542 \times 10^{-2}$	$9.267 \times 10^{-3}$
0.7267	0.1067	$1.536 \times 10^{-1}$	$-5.624 \times 10^{-3}$	$1.595 \times 10^{-2}$	$1.011 \times 10^{-2}$
0.7333	0.1067	$1.636 \times 10^{-1}$	$-7.873 \times 10^{-4}$	$1.481 \times 10^{-2}$	$1.064 \times 10^{-2}$
0.7400	0.1067	$1.674 \times 10^{-1}$	$3.721 \times 10^{-3}$	$1.328 \times 10^{-2}$	$1.063 \times 10^{-2}$
0.7467	0.1067	$1.700 \times 10^{-1}$	$8.508 \times 10^{-3}$	$1.184 \times 10^{-2}$	$1.031 \times 10^{-2}$
0.7533	0.1067	$1.654 \times 10^{-1}$	$1.332 \times 10^{-2}$	$8.818 \times 10^{-3}$	$9.407 \times 10^{-3}$
0.7600	0.1067	$1.557 \times 10^{-1}$	$1.705 \times 10^{-2}$	$6.228 \times 10^{-3}$	$8.440 \times 10^{-3}$
0.7667	0.1067	$1.451 \times 10^{-1}$	$1.956 \times 10^{-2}$	$3.700 \times 10^{-3}$	$7.460 \times 10^{-3}$
0.7733	0.1067	$1.331 \times 10^{-1}$	$2.065 \times 10^{-2}$	$1.859 \times 10^{-3}$	$6.577 \times 10^{-3}$
0.7800	0.1067	$1.211 \times 10^{-1}$	$2.068 \times 10^{-2}$	$-1.064 \times 10^{-4}$	$5.504 \times 10^{-3}$
0.7867	0.1067	$1.083 \times 10^{-1}$	$1.997 \times 10^{-2}$	$-1.809 \times 10^{-3}$	$4.541 \times 10^{-3}$
0.7933	0.1067	$9.609 \times 10^{-2}$	$1.877 \times 10^{-2}$	$-2.565 \times 10^{-3}$	$3.780 \times 10^{-3}$
0.8000	0.1067	$8.660 \times 10^{-2}$	$1.760 \times 10^{-2}$	$-2.900 \times 10^{-3}$	$3.162 \times 10^{-3}$
0.8067	0.1067	$7.606 \times 10^{-2}$	$1.594 \times 10^{-2}$	$-2.909 \times 10^{-3}$	$2.548 \times 10^{-3}$
0.8133	0.1067	$6.754 \times 10^{-2}$	$1.484 \times 10^{-2}$	$-2.990 \times 10^{-3}$	$2.285 \times 10^{-3}$
0.8200	0.1067	$6.284 \times 10^{-2}$	$1.413 \times 10^{-2}$	$-3.114 \times 10^{-3}$	$2.047 \times 10^{-3}$
0.8267	0.1067	$5.757 \times 10^{-2}$	$1.332 \times 10^{-2}$	$-2.530 \times 10^{-3}$	$1.859 \times 10^{-3}$
0.8333	0.1067	$5.376 \times 10^{-2}$	$1.327 \times 10^{-2}$	$-2.598 \times 10^{-3}$	$1.801 \times 10^{-3}$
0.8400	0.1067	$4.814 \times 10^{-2}$	$1.255 \times 10^{-2}$	$-2.593 \times 10^{-3}$	$1.563 \times 10^{-3}$
0.8467	0.1067	$4.377 \times 10^{-2}$	$1.212 \times 10^{-2}$	$-2.852 \times 10^{-3}$	$1.444 \times 10^{-3}$
0.8533	0.1067	$4.138 \times 10^{-2}$	$1.149 \times 10^{-2}$	$-3.100 \times 10^{-3}$	$1.304 \times 10^{-3}$
0.8600	0.1067	$3.835 \times 10^{-2}$	$1.061 \times 10^{-2}$	$-2.965 \times 10^{-3}$	$1.211 \times 10^{-3}$
0.8667	0.1067	$3.504 \times 10^{-2}$	$9.658 \times 10^{-3}$	$-2.899 \times 10^{-3}$	$9.975 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.1067	$3.333 \times 10^{-2}$	$9.382 \times 10^{-3}$	$-2.856 \times 10^{-3}$	$1.010 \times 10^{-3}$
0.8800	0.1067	$2.866 \times 10^{-2}$	$8.988 \times 10^{-3}$	$-3.027 \times 10^{-3}$	$8.447 \times 10^{-4}$
0.8867	0.1067	$2.626 \times 10^{-2}$	$9.035 \times 10^{-3}$	$-3.611 \times 10^{-3}$	$8.175 \times 10^{-4}$
0.8933	0.1067	$2.598 \times 10^{-2}$	$8.880 \times 10^{-3}$	$-3.333 \times 10^{-3}$	$7.701 \times 10^{-4}$
0.9000	0.1067	$2.465 \times 10^{-2}$	$8.492 \times 10^{-3}$	$-3.224 \times 10^{-3}$	$7.282 \times 10^{-4}$
0.9067	0.1067	$2.266 \times 10^{-2}$	$7.655 \times 10^{-3}$	$-3.200 \times 10^{-3}$	$7.226 \times 10^{-4}$
0.9133	0.1067	$2.183 \times 10^{-2}$	$7.046 \times 10^{-3}$	$-2.979 \times 10^{-3}$	$5.475 \times 10^{-4}$
0.9200	0.1067	$2.063 \times 10^{-2}$	$7.263 \times 10^{-3}$	$-3.546 \times 10^{-3}$	$6.132 \times 10^{-4}$
0.9267	0.1067	$1.938 \times 10^{-2}$	$6.854 \times 10^{-3}$	$-3.338 \times 10^{-3}$	$5.846 \times 10^{-4}$
0.9333	0.1067	$1.809 \times 10^{-2}$	$6.340 \times 10^{-3}$	$-2.986 \times 10^{-3}$	$5.745 \times 10^{-4}$
0.9400	0.1067	$1.730 \times 10^{-2}$	$6.131 \times 10^{-3}$	$-2.893 \times 10^{-3}$	$4.826 \times 10^{-4}$
0.9467	0.1067	$1.616 \times 10^{-2}$	$5.612 \times 10^{-3}$	$-2.925 \times 10^{-3}$	$4.286 \times 10^{-4}$
0.9533	0.1067	$1.555 \times 10^{-2}$	$5.313 \times 10^{-3}$	$-3.030 \times 10^{-3}$	$4.340 \times 10^{-4}$
0.9600	0.1067	$1.467 \times 10^{-2}$	$5.072 \times 10^{-3}$	$-3.050 \times 10^{-3}$	$4.466 \times 10^{-4}$
0.9667	0.1067	$1.363 \times 10^{-2}$	$4.843 \times 10^{-3}$	$-2.845 \times 10^{-3}$	$3.459 \times 10^{-4}$
0.9733	0.1067	$1.262 \times 10^{-2}$	$4.699 \times 10^{-3}$	$-2.425 \times 10^{-3}$	$3.068 \times 10^{-4}$
0.9800	0.1067	$1.212 \times 10^{-2}$	$4.553 \times 10^{-3}$	$-2.434 \times 10^{-3}$	$2.914 \times 10^{-4}$
0.9867	0.1067	$1.123 \times 10^{-2}$	$4.321 \times 10^{-3}$	$-2.395 \times 10^{-3}$	$2.732 \times 10^{-4}$
0.9933	0.1067	$1.071 \times 10^{-2}$	$4.328 \times 10^{-3}$	$-2.367 \times 10^{-3}$	$2.823 \times 10^{-4}$
1.0000	0.1067	$1.043 \times 10^{-2}$	$4.286 \times 10^{-3}$	$-2.330 \times 10^{-3}$	$2.827 \times 10^{-4}$
0.4667	0.1133	$3.446 \times 10^{-2}$	$9.910 \times 10^{-3}$	$2.244 \times 10^{-4}$	$4.611 \times 10^{-3}$
0.4733	0.1133	$3.475 \times 10^{-2}$	$9.764 \times 10^{-3}$	$2.405 \times 10^{-4}$	$4.616 \times 10^{-3}$
0.4800	0.1133	$3.742 \times 10^{-2}$	$9.061 \times 10^{-3}$	$4.916 \times 10^{-4}$	$4.768 \times 10^{-3}$
0.4867	0.1133	$3.789 \times 10^{-2}$	$8.936 \times 10^{-3}$	$5.429 \times 10^{-4}$	$4.792 \times 10^{-3}$
0.4933	0.1133	$4.223 \times 10^{-2}$	$7.591 \times 10^{-3}$	$6.908 \times 10^{-4}$	$4.691 \times 10^{-3}$
0.5000	0.1133	$4.300 \times 10^{-2}$	$7.349 \times 10^{-3}$	$7.099 \times 10^{-4}$	$4.667 \times 10^{-3}$
0.5067	0.1133	$4.668 \times 10^{-2}$	$5.024 \times 10^{-3}$	$9.568 \times 10^{-4}$	$4.093 \times 10^{-3}$
0.5133	0.1133	$4.734 \times 10^{-2}$	$4.607 \times 10^{-3}$	$1.005 \times 10^{-3}$	$3.986 \times 10^{-3}$
0.5200	0.1133	$5.208 \times 10^{-2}$	$2.966 \times 10^{-3}$	$1.188 \times 10^{-3}$	$3.858 \times 10^{-3}$
0.5267	0.1133	$5.295 \times 10^{-2}$	$2.681 \times 10^{-3}$	$1.216 \times 10^{-3}$	$3.836 \times 10^{-3}$
0.5333	0.1133	$5.777 \times 10^{-2}$	$1.590 \times 10^{-3}$	$1.472 \times 10^{-3}$	$3.775 \times 10^{-3}$
0.5400	0.1133	$5.868 \times 10^{-2}$	$1.394 \times 10^{-3}$	$1.509 \times 10^{-3}$	$3.766 \times 10^{-3}$
0.5467	0.1133	$6.258 \times 10^{-2}$	$2.722 \times 10^{-4}$	$1.739 \times 10^{-3}$	$3.378 \times 10^{-3}$
0.5533	0.1133	$6.334 \times 10^{-2}$	$6.070 \times 10^{-5}$	$1.780 \times 10^{-3}$	$3.305 \times 10^{-3}$
0.5600	0.1133	$6.748 \times 10^{-2}$	$-9.544 \times 10^{-4}$	$1.968 \times 10^{-3}$	$3.056 \times 10^{-3}$
0.5667	0.1133	$6.828 \times 10^{-2}$	$-1.161 \times 10^{-3}$	$2.001 \times 10^{-3}$	$3.009 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.1133	$7.218 \times 10^{-2}$	$-1.623 \times 10^{-3}$	$2.118 \times 10^{-3}$	$2.919 \times 10^{-3}$
0.5800	0.1133	$7.305 \times 10^{-2}$	$-1.747 \times 10^{-3}$	$2.131 \times 10^{-3}$	$2.901 \times 10^{-3}$
0.5867	0.1133	$7.601 \times 10^{-2}$	$-1.927 \times 10^{-3}$	$2.252 \times 10^{-3}$	$2.763 \times 10^{-3}$
0.5933	0.1133	$7.761 \times 10^{-2}$	$-2.059 \times 10^{-3}$	$2.265 \times 10^{-3}$	$2.691 \times 10^{-3}$
0.6000	0.1133	$7.810 \times 10^{-2}$	$-2.112 \times 10^{-3}$	$2.341 \times 10^{-3}$	$2.668 \times 10^{-3}$
0.6067	0.1133	$8.029 \times 10^{-2}$	$-2.408 \times 10^{-3}$	$2.456 \times 10^{-3}$	$2.575 \times 10^{-3}$
0.6133	0.1133	$8.058 \times 10^{-2}$	$-2.457 \times 10^{-3}$	$2.454 \times 10^{-3}$	$2.566 \times 10^{-3}$
0.6200	0.1133	$8.177 \times 10^{-2}$	$-2.573 \times 10^{-3}$	$2.724 \times 10^{-3}$	$2.549 \times 10^{-3}$
0.6267	0.1133	$8.279 \times 10^{-2}$	$-2.802 \times 10^{-3}$	$2.814 \times 10^{-3}$	$2.582 \times 10^{-3}$
0.6333	0.1133	$8.355 \times 10^{-2}$	$-2.968 \times 10^{-3}$	$3.217 \times 10^{-3}$	$2.670 \times 10^{-3}$
0.6400	0.1133	$8.388 \times 10^{-2}$	$-3.300 \times 10^{-3}$	$3.318 \times 10^{-3}$	$2.750 \times 10^{-3}$
0.6467	0.1133	$8.444 \times 10^{-2}$	$-3.947 \times 10^{-3}$	$3.514 \times 10^{-3}$	$2.906 \times 10^{-3}$
0.6533	0.1133	$8.499 \times 10^{-2}$	$-4.399 \times 10^{-3}$	$4.125 \times 10^{-3}$	$3.147 \times 10^{-3}$
0.6600	0.1133	$8.612 \times 10^{-2}$	$-5.328 \times 10^{-3}$	$4.937 \times 10^{-3}$	$3.474 \times 10^{-3}$
0.6667	0.1133	$8.667 \times 10^{-2}$	$-5.746 \times 10^{-3}$	$5.439 \times 10^{-3}$	$3.637 \times 10^{-3}$
0.6733	0.1133	$8.955 \times 10^{-2}$	$-7.394 \times 10^{-3}$	$6.809 \times 10^{-3}$	$4.272 \times 10^{-3}$
0.6800	0.1133	$9.138 \times 10^{-2}$	$-8.127 \times 10^{-3}$	$7.451 \times 10^{-3}$	$4.591 \times 10^{-3}$
0.6867	0.1133	$9.513 \times 10^{-2}$	$-9.403 \times 10^{-3}$	$8.786 \times 10^{-3}$	$5.168 \times 10^{-3}$
0.6933	0.1133	$1.005 \times 10^{-1}$	$-1.032 \times 10^{-2}$	$1.001 \times 10^{-2}$	$5.788 \times 10^{-3}$
0.7000	0.1133	$1.045 \times 10^{-1}$	$-1.077 \times 10^{-2}$	$1.108 \times 10^{-2}$	$6.218 \times 10^{-3}$
0.7067	0.1133	$1.135 \times 10^{-1}$	$-1.110 \times 10^{-2}$	$1.306 \times 10^{-2}$	$7.160 \times 10^{-3}$
0.7133	0.1133	$1.257 \times 10^{-1}$	$-1.083 \times 10^{-2}$	$1.471 \times 10^{-2}$	$8.242 \times 10^{-3}$
0.7200	0.1133	$1.363 \times 10^{-1}$	$-9.501 \times 10^{-3}$	$1.551 \times 10^{-2}$	$8.958 \times 10^{-3}$
0.7267	0.1133	$1.482 \times 10^{-1}$	$-6.588 \times 10^{-3}$	$1.624 \times 10^{-2}$	$9.734 \times 10^{-3}$
0.7333	0.1133	$1.577 \times 10^{-1}$	$-2.559 \times 10^{-3}$	$1.594 \times 10^{-2}$	$1.028 \times 10^{-2}$
0.7400	0.1133	$1.629 \times 10^{-1}$	$1.076 \times 10^{-3}$	$1.532 \times 10^{-2}$	$1.039 \times 10^{-2}$
0.7467	0.1133	$1.662 \times 10^{-1}$	$5.252 \times 10^{-3}$	$1.398 \times 10^{-2}$	$1.024 \times 10^{-2}$
0.7533	0.1133	$1.658 \times 10^{-1}$	$9.937 \times 10^{-3}$	$1.162 \times 10^{-2}$	$9.774 \times 10^{-3}$
0.7600	0.1133	$1.603 \times 10^{-1}$	$1.442 \times 10^{-2}$	$8.814 \times 10^{-3}$	$9.009 \times 10^{-3}$
0.7667	0.1133	$1.507 \times 10^{-1}$	$1.778 \times 10^{-2}$	$5.692 \times 10^{-3}$	$8.006 \times 10^{-3}$
0.7733	0.1133	$1.376 \times 10^{-1}$	$1.987 \times 10^{-2}$	$2.863 \times 10^{-3}$	$6.856 \times 10^{-3}$
0.7800	0.1133	$1.233 \times 10^{-1}$	$2.055 \times 10^{-2}$	$3.576 \times 10^{-4}$	$5.684 \times 10^{-3}$
0.7867	0.1133	$1.099 \times 10^{-1}$	$1.993 \times 10^{-2}$	$-1.576 \times 10^{-3}$	$4.815 \times 10^{-3}$
0.7933	0.1133	$1.014 \times 10^{-1}$	$1.914 \times 10^{-2}$	$-2.449 \times 10^{-3}$	$4.194 \times 10^{-3}$
0.8000	0.1133	$9.189 \times 10^{-2}$	$1.817 \times 10^{-2}$	$-3.127 \times 10^{-3}$	$3.487 \times 10^{-3}$
0.8067	0.1133	$8.287 \times 10^{-2}$	$1.720 \times 10^{-2}$	$-3.432 \times 10^{-3}$	$3.052 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.1133	$7.428 \times 10^{-2}$	$1.628 \times 10^{-2}$	$-3.695 \times 10^{-3}$	$2.601 \times 10^{-3}$
0.8200	0.1133	$6.570 \times 10^{-2}$	$1.499 \times 10^{-2}$	$-3.506 \times 10^{-3}$	$2.247 \times 10^{-3}$
0.8267	0.1133	$5.929 \times 10^{-2}$	$1.393 \times 10^{-2}$	$-3.171 \times 10^{-3}$	$2.011 \times 10^{-3}$
0.8333	0.1133	$5.497 \times 10^{-2}$	$1.315 \times 10^{-2}$	$-3.028 \times 10^{-3}$	$1.825 \times 10^{-3}$
0.8400	0.1133	$5.074 \times 10^{-2}$	$1.252 \times 10^{-2}$	$-3.192 \times 10^{-3}$	$1.548 \times 10^{-3}$
0.8467	0.1133	$4.568 \times 10^{-2}$	$1.208 \times 10^{-2}$	$-3.121 \times 10^{-3}$	$1.455 \times 10^{-3}$
0.8533	0.1133	$4.232 \times 10^{-2}$	$1.156 \times 10^{-2}$	$-3.056 \times 10^{-3}$	$1.408 \times 10^{-3}$
0.8600	0.1133	$4.057 \times 10^{-2}$	$1.094 \times 10^{-2}$	$-3.150 \times 10^{-3}$	$1.198 \times 10^{-3}$
0.8667	0.1133	$3.773 \times 10^{-2}$	$1.039 \times 10^{-2}$	$-3.287 \times 10^{-3}$	$1.109 \times 10^{-3}$
0.8733	0.1133	$3.392 \times 10^{-2}$	$9.572 \times 10^{-3}$	$-3.177 \times 10^{-3}$	$1.023 \times 10^{-3}$
0.8800	0.1133	$3.119 \times 10^{-2}$	$8.941 \times 10^{-3}$	$-3.684 \times 10^{-3}$	$8.996 \times 10^{-4}$
0.8867	0.1133	$2.908 \times 10^{-2}$	$8.604 \times 10^{-3}$	$-3.585 \times 10^{-3}$	$8.267 \times 10^{-4}$
0.8933	0.1133	$2.764 \times 10^{-2}$	$8.735 \times 10^{-3}$	$-3.268 \times 10^{-3}$	$8.603 \times 10^{-4}$
0.9000	0.1133	$2.528 \times 10^{-2}$	$8.442 \times 10^{-3}$	$-3.232 \times 10^{-3}$	$8.103 \times 10^{-4}$
0.9067	0.1133	$2.354 \times 10^{-2}$	$8.065 \times 10^{-3}$	$-3.571 \times 10^{-3}$	$7.631 \times 10^{-4}$
0.9133	0.1133	$2.252 \times 10^{-2}$	$7.696 \times 10^{-3}$	$-3.563 \times 10^{-3}$	$7.251 \times 10^{-4}$
0.9200	0.1133	$2.140 \times 10^{-2}$	$7.493 \times 10^{-3}$	$-3.567 \times 10^{-3}$	$6.615 \times 10^{-4}$
0.9267	0.1133	$2.040 \times 10^{-2}$	$7.092 \times 10^{-3}$	$-3.486 \times 10^{-3}$	$6.054 \times 10^{-4}$
0.9333	0.1133	$1.933 \times 10^{-2}$	$6.600 \times 10^{-3}$	$-3.188 \times 10^{-3}$	$5.485 \times 10^{-4}$
0.9400	0.1133	$1.875 \times 10^{-2}$	$6.416 \times 10^{-3}$	$-3.107 \times 10^{-3}$	$5.234 \times 10^{-4}$
0.9467	0.1133	$1.765 \times 10^{-2}$	$6.024 \times 10^{-3}$	$-3.257 \times 10^{-3}$	$4.948 \times 10^{-4}$
0.9533	0.1133	$1.664 \times 10^{-2}$	$5.682 \times 10^{-3}$	$-3.486 \times 10^{-3}$	$5.109 \times 10^{-4}$
0.9600	0.1133	$1.556 \times 10^{-2}$	$5.527 \times 10^{-3}$	$-3.272 \times 10^{-3}$	$4.735 \times 10^{-4}$
0.9667	0.1133	$1.509 \times 10^{-2}$	$5.498 \times 10^{-3}$	$-3.166 \times 10^{-3}$	$4.394 \times 10^{-4}$
0.9733	0.1133	$1.447 \times 10^{-2}$	$5.548 \times 10^{-3}$	$-2.996 \times 10^{-3}$	$3.941 \times 10^{-4}$
0.9800	0.1133	$1.287 \times 10^{-2}$	$4.931 \times 10^{-3}$	$-2.801 \times 10^{-3}$	$2.959 \times 10^{-4}$
0.9867	0.1133	$1.187 \times 10^{-2}$	$4.695 \times 10^{-3}$	$-2.643 \times 10^{-3}$	$3.081 \times 10^{-4}$
0.9933	0.1133	$1.144 \times 10^{-2}$	$4.631 \times 10^{-3}$	$-2.606 \times 10^{-3}$	$3.170 \times 10^{-4}$
1.0000	0.1133	$1.079 \times 10^{-2}$	$4.443 \times 10^{-3}$	$-2.423 \times 10^{-3}$	$3.009 \times 10^{-4}$
0.4667	0.1200	$3.400 \times 10^{-2}$	$1.057 \times 10^{-2}$	$1.097 \times 10^{-4}$	$4.640 \times 10^{-3}$
0.4733	0.1200	$3.531 \times 10^{-2}$	$9.651 \times 10^{-3}$	$2.894 \times 10^{-4}$	$4.661 \times 10^{-3}$
0.4800	0.1200	$3.600 \times 10^{-2}$	$9.362 \times 10^{-3}$	$3.597 \times 10^{-4}$	$4.688 \times 10^{-3}$
0.4867	0.1200	$3.900 \times 10^{-2}$	$8.696 \times 10^{-3}$	$7.079 \times 10^{-4}$	$4.806 \times 10^{-3}$
0.4933	0.1200	$4.029 \times 10^{-2}$	$8.376 \times 10^{-3}$	$8.416 \times 10^{-4}$	$4.827 \times 10^{-3}$
0.5000	0.1200	$4.359 \times 10^{-2}$	$6.804 \times 10^{-3}$	$7.700 \times 10^{-4}$	$4.516 \times 10^{-3}$
0.5067	0.1200	$4.480 \times 10^{-2}$	$6.150 \times 10^{-3}$	$7.877 \times 10^{-4}$	$4.375 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.1200	$4.808 \times 10^{-2}$	$4.263 \times 10^{-3}$	$1.108 \times 10^{-3}$	$3.983 \times 10^{-3}$
0.5200	0.1200	$4.936 \times 10^{-2}$	$3.626 \times 10^{-3}$	$1.227 \times 10^{-3}$	$3.882 \times 10^{-3}$
0.5267	0.1200	$5.354 \times 10^{-2}$	$2.547 \times 10^{-3}$	$1.456 \times 10^{-3}$	$3.833 \times 10^{-3}$
0.5333	0.1200	$5.500 \times 10^{-2}$	$2.184 \times 10^{-3}$	$1.590 \times 10^{-3}$	$3.815 \times 10^{-3}$
0.5400	0.1200	$5.872 \times 10^{-2}$	$1.239 \times 10^{-3}$	$1.655 \times 10^{-3}$	$3.653 \times 10^{-3}$
0.5467	0.1200	$5.989 \times 10^{-2}$	$8.979 \times 10^{-4}$	$1.726 \times 10^{-3}$	$3.562 \times 10^{-3}$
0.5533	0.1200	$6.362 \times 10^{-2}$	$-1.827 \times 10^{-5}$	$1.893 \times 10^{-3}$	$3.253 \times 10^{-3}$
0.5600	0.1200	$6.485 \times 10^{-2}$	$-3.179 \times 10^{-4}$	$1.980 \times 10^{-3}$	$3.147 \times 10^{-3}$
0.5667	0.1200	$6.853 \times 10^{-2}$	$-1.017 \times 10^{-3}$	$2.160 \times 10^{-3}$	$2.996 \times 10^{-3}$
0.5733	0.1200	$6.972 \times 10^{-2}$	$-1.176 \times 10^{-3}$	$2.261 \times 10^{-3}$	$2.948 \times 10^{-3}$
0.5800	0.1200	$7.305 \times 10^{-2}$	$-1.573 \times 10^{-3}$	$2.319 \times 10^{-3}$	$2.867 \times 10^{-3}$
0.5867	0.1200	$7.406 \times 10^{-2}$	$-1.635 \times 10^{-3}$	$2.403 \times 10^{-3}$	$2.831 \times 10^{-3}$
0.5933	0.1200	$7.692 \times 10^{-2}$	$-1.948 \times 10^{-3}$	$2.422 \times 10^{-3}$	$2.725 \times 10^{-3}$
0.6000	0.1200	$7.770 \times 10^{-2}$	$-2.021 \times 10^{-3}$	$2.503 \times 10^{-3}$	$2.702 \times 10^{-3}$
0.6067	0.1200	$7.947 \times 10^{-2}$	$-2.193 \times 10^{-3}$	$2.561 \times 10^{-3}$	$2.600 \times 10^{-3}$
0.6133	0.1200	$8.005 \times 10^{-2}$	$-2.252 \times 10^{-3}$	$2.605 \times 10^{-3}$	$2.573 \times 10^{-3}$
0.6200	0.1200	$8.189 \times 10^{-2}$	$-2.477 \times 10^{-3}$	$2.893 \times 10^{-3}$	$2.511 \times 10^{-3}$
0.6267	0.1200	$8.201 \times 10^{-2}$	$-2.514 \times 10^{-3}$	$2.920 \times 10^{-3}$	$2.523 \times 10^{-3}$
0.6333	0.1200	$8.339 \times 10^{-2}$	$-2.940 \times 10^{-3}$	$3.227 \times 10^{-3}$	$2.665 \times 10^{-3}$
0.6400	0.1200	$8.350 \times 10^{-2}$	$-3.259 \times 10^{-3}$	$3.459 \times 10^{-3}$	$2.767 \times 10^{-3}$
0.6467	0.1200	$8.352 \times 10^{-2}$	$-3.519 \times 10^{-3}$	$3.675 \times 10^{-3}$	$2.858 \times 10^{-3}$
0.6533	0.1200	$8.480 \times 10^{-2}$	$-4.199 \times 10^{-3}$	$4.233 \times 10^{-3}$	$3.142 \times 10^{-3}$
0.6600	0.1200	$8.518 \times 10^{-2}$	$-4.528 \times 10^{-3}$	$4.635 \times 10^{-3}$	$3.279 \times 10^{-3}$
0.6667	0.1200	$8.610 \times 10^{-2}$	$-5.237 \times 10^{-3}$	$5.522 \times 10^{-3}$	$3.578 \times 10^{-3}$
0.6733	0.1200	$8.760 \times 10^{-2}$	$-6.324 \times 10^{-3}$	$6.371 \times 10^{-3}$	$3.915 \times 10^{-3}$
0.6800	0.1200	$9.005 \times 10^{-2}$	$-7.736 \times 10^{-3}$	$7.617 \times 10^{-3}$	$4.465 \times 10^{-3}$
0.6867	0.1200	$9.191 \times 10^{-2}$	$-8.312 \times 10^{-3}$	$8.174 \times 10^{-3}$	$4.734 \times 10^{-3}$
0.6933	0.1200	$9.636 \times 10^{-2}$	$-9.345 \times 10^{-3}$	$9.674 \times 10^{-3}$	$5.330 \times 10^{-3}$
0.7000	0.1200	$1.036 \times 10^{-1}$	$-1.029 \times 10^{-2}$	$1.145 \times 10^{-2}$	$6.162 \times 10^{-3}$
0.7067	0.1200	$1.117 \times 10^{-1}$	$-1.068 \times 10^{-2}$	$1.309 \times 10^{-2}$	$6.995 \times 10^{-3}$
0.7133	0.1200	$1.171 \times 10^{-1}$	$-1.061 \times 10^{-2}$	$1.406 \times 10^{-2}$	$7.500 \times 10^{-3}$
0.7200	0.1200	$1.280 \times 10^{-1}$	$-9.700 \times 10^{-3}$	$1.543 \times 10^{-2}$	$8.318 \times 10^{-3}$
0.7267	0.1200	$1.384 \times 10^{-1}$	$-7.818 \times 10^{-3}$	$1.628 \times 10^{-2}$	$9.009 \times 10^{-3}$
0.7333	0.1200	$1.488 \times 10^{-1}$	$-5.041 \times 10^{-3}$	$1.675 \times 10^{-2}$	$9.735 \times 10^{-3}$
0.7400	0.1200	$1.578 \times 10^{-1}$	$-1.105 \times 10^{-3}$	$1.665 \times 10^{-2}$	$1.020 \times 10^{-2}$
0.7467	0.1200	$1.643 \times 10^{-1}$	$3.672 \times 10^{-3}$	$1.546 \times 10^{-2}$	$1.029 \times 10^{-2}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.1200	$1.648 \times 10^{-1}$	$8.547 \times 10^{-3}$	$1.289 \times 10^{-2}$	$9.874 \times 10^{-3}$
0.7600	0.1200	$1.617 \times 10^{-1}$	$1.325 \times 10^{-2}$	$1.032 \times 10^{-2}$	$9.222 \times 10^{-3}$
0.7667	0.1200	$1.545 \times 10^{-1}$	$1.682 \times 10^{-2}$	$7.206 \times 10^{-3}$	$8.357 \times 10^{-3}$
0.7733	0.1200	$1.447 \times 10^{-1}$	$1.910 \times 10^{-2}$	$4.322 \times 10^{-3}$	$7.444 \times 10^{-3}$
0.7800	0.1200	$1.326 \times 10^{-1}$	$2.022 \times 10^{-2}$	$2.057 \times 10^{-3}$	$6.430 \times 10^{-3}$
0.7867	0.1200	$1.207 \times 10^{-1}$	$2.040 \times 10^{-2}$	$4.454 \times 10^{-6}$	$5.531 \times 10^{-3}$
0.7933	0.1200	$1.104 \times 10^{-1}$	$1.990 \times 10^{-2}$	$-1.665 \times 10^{-3}$	$4.735 \times 10^{-3}$
0.8000	0.1200	$9.951 \times 10^{-2}$	$1.900 \times 10^{-2}$	$-2.796 \times 10^{-3}$	$3.934 \times 10^{-3}$
0.8067	0.1200	$8.813 \times 10^{-2}$	$1.805 \times 10^{-2}$	$-3.438 \times 10^{-3}$	$3.384 \times 10^{-3}$
0.8133	0.1200	$7.870 \times 10^{-2}$	$1.710 \times 10^{-2}$	$-3.891 \times 10^{-3}$	$2.941 \times 10^{-3}$
0.8200	0.1200	$7.158 \times 10^{-2}$	$1.613 \times 10^{-2}$	$-3.988 \times 10^{-3}$	$2.588 \times 10^{-3}$
0.8267	0.1200	$6.433 \times 10^{-2}$	$1.498 \times 10^{-2}$	$-4.039 \times 10^{-3}$	$2.223 \times 10^{-3}$
0.8333	0.1200	$5.907 \times 10^{-2}$	$1.390 \times 10^{-2}$	$-3.809 \times 10^{-3}$	$1.952 \times 10^{-3}$
0.8400	0.1200	$5.396 \times 10^{-2}$	$1.314 \times 10^{-2}$	$-4.061 \times 10^{-3}$	$1.737 \times 10^{-3}$
0.8467	0.1200	$4.853 \times 10^{-2}$	$1.261 \times 10^{-2}$	$-3.729 \times 10^{-3}$	$1.668 \times 10^{-3}$
0.8533	0.1200	$4.472 \times 10^{-2}$	$1.181 \times 10^{-2}$	$-3.748 \times 10^{-3}$	$1.410 \times 10^{-3}$
0.8600	0.1200	$4.175 \times 10^{-2}$	$1.129 \times 10^{-2}$	$-3.799 \times 10^{-3}$	$1.206 \times 10^{-3}$
0.8667	0.1200	$3.861 \times 10^{-2}$	$1.081 \times 10^{-2}$	$-3.670 \times 10^{-3}$	$1.166 \times 10^{-3}$
0.8733	0.1200	$3.599 \times 10^{-2}$	$1.009 \times 10^{-2}$	$-3.832 \times 10^{-3}$	$1.126 \times 10^{-3}$
0.8800	0.1200	$3.395 \times 10^{-2}$	$9.507 \times 10^{-3}$	$-3.813 \times 10^{-3}$	$9.793 \times 10^{-4}$
0.8867	0.1200	$3.165 \times 10^{-2}$	$8.946 \times 10^{-3}$	$-3.547 \times 10^{-3}$	$8.876 \times 10^{-4}$
0.8933	0.1200	$2.915 \times 10^{-2}$	$8.546 \times 10^{-3}$	$-3.163 \times 10^{-3}$	$8.564 \times 10^{-4}$
0.9000	0.1200	$2.591 \times 10^{-2}$	$8.058 \times 10^{-3}$	$-3.184 \times 10^{-3}$	$7.895 \times 10^{-4}$
0.9067	0.1200	$2.490 \times 10^{-2}$	$8.472 \times 10^{-3}$	$-3.874 \times 10^{-3}$	$8.104 \times 10^{-4}$
0.9133	0.1200	$2.378 \times 10^{-2}$	$8.060 \times 10^{-3}$	$-3.502 \times 10^{-3}$	$7.808 \times 10^{-4}$
0.9200	0.1200	$2.206 \times 10^{-2}$	$7.868 \times 10^{-3}$	$-3.564 \times 10^{-3}$	$7.836 \times 10^{-4}$
0.9267	0.1200	$2.057 \times 10^{-2}$	$6.987 \times 10^{-3}$	$-3.420 \times 10^{-3}$	$6.384 \times 10^{-4}$
0.9333	0.1200	$2.000 \times 10^{-2}$	$6.904 \times 10^{-3}$	$-3.537 \times 10^{-3}$	$5.257 \times 10^{-4}$
0.9400	0.1200	$1.965 \times 10^{-2}$	$6.739 \times 10^{-3}$	$-3.528 \times 10^{-3}$	$5.211 \times 10^{-4}$
0.9467	0.1200	$1.873 \times 10^{-2}$	$6.405 \times 10^{-3}$	$-3.572 \times 10^{-3}$	$5.346 \times 10^{-4}$
0.9533	0.1200	$1.744 \times 10^{-2}$	$5.996 \times 10^{-3}$	$-3.634 \times 10^{-3}$	$5.284 \times 10^{-4}$
0.9600	0.1200	$1.705 \times 10^{-2}$	$6.059 \times 10^{-3}$	$-3.674 \times 10^{-3}$	$5.221 \times 10^{-4}$
0.9667	0.1200	$1.625 \times 10^{-2}$	$6.062 \times 10^{-3}$	$-3.524 \times 10^{-3}$	$4.954 \times 10^{-4}$
0.9733	0.1200	$1.484 \times 10^{-2}$	$5.626 \times 10^{-3}$	$-3.182 \times 10^{-3}$	$3.944 \times 10^{-4}$
0.9800	0.1200	$1.420 \times 10^{-2}$	$5.394 \times 10^{-3}$	$-3.100 \times 10^{-3}$	$3.397 \times 10^{-4}$
0.9867	0.1200	$1.250 \times 10^{-2}$	$4.981 \times 10^{-3}$	$-2.797 \times 10^{-3}$	$3.502 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.1200	$1.217 \times 10^{-2}$	$4.891 \times 10^{-3}$	$-2.738 \times 10^{-3}$	$3.428 \times 10^{-4}$
1.0000	0.1200	$1.136 \times 10^{-2}$	$4.705 \times 10^{-3}$	$-2.569 \times 10^{-3}$	$3.323 \times 10^{-4}$
0.4667	0.1267	$3.395 \times 10^{-2}$	$1.063 \times 10^{-2}$	$9.779 \times 10^{-5}$	$4.643 \times 10^{-3}$
0.4733	0.1267	$3.529 \times 10^{-2}$	$9.632 \times 10^{-3}$	$3.094 \times 10^{-4}$	$4.662 \times 10^{-3}$
0.4800	0.1267	$3.584 \times 10^{-2}$	$9.392 \times 10^{-3}$	$3.502 \times 10^{-4}$	$4.681 \times 10^{-3}$
0.4867	0.1267	$3.907 \times 10^{-2}$	$8.682 \times 10^{-3}$	$7.684 \times 10^{-4}$	$4.805 \times 10^{-3}$
0.4933	0.1267	$4.011 \times 10^{-2}$	$8.457 \times 10^{-3}$	$8.622 \times 10^{-4}$	$4.842 \times 10^{-3}$
0.5000	0.1267	$4.354 \times 10^{-2}$	$6.740 \times 10^{-3}$	$7.903 \times 10^{-4}$	$4.489 \times 10^{-3}$
0.5067	0.1267	$4.460 \times 10^{-2}$	$6.247 \times 10^{-3}$	$7.740 \times 10^{-4}$	$4.396 \times 10^{-3}$
0.5133	0.1267	$4.803 \times 10^{-2}$	$4.230 \times 10^{-3}$	$1.147 \times 10^{-3}$	$3.979 \times 10^{-3}$
0.5200	0.1267	$4.909 \times 10^{-2}$	$3.681 \times 10^{-3}$	$1.236 \times 10^{-3}$	$3.882 \times 10^{-3}$
0.5267	0.1267	$5.339 \times 10^{-2}$	$2.560 \times 10^{-3}$	$1.543 \times 10^{-3}$	$3.828 \times 10^{-3}$
0.5333	0.1267	$5.472 \times 10^{-2}$	$2.244 \times 10^{-3}$	$1.610 \times 10^{-3}$	$3.820 \times 10^{-3}$
0.5400	0.1267	$5.837 \times 10^{-2}$	$1.276 \times 10^{-3}$	$1.719 \times 10^{-3}$	$3.636 \times 10^{-3}$
0.5467	0.1267	$5.959 \times 10^{-2}$	$9.609 \times 10^{-4}$	$1.731 \times 10^{-3}$	$3.577 \times 10^{-3}$
0.5533	0.1267	$6.334 \times 10^{-2}$	$3.840 \times 10^{-5}$	$1.938 \times 10^{-3}$	$3.256 \times 10^{-3}$
0.5600	0.1267	$6.457 \times 10^{-2}$	$-2.563 \times 10^{-4}$	$1.986 \times 10^{-3}$	$3.154 \times 10^{-3}$
0.5667	0.1267	$6.828 \times 10^{-2}$	$-9.156 \times 10^{-4}$	$2.217 \times 10^{-3}$	$2.998 \times 10^{-3}$
0.5733	0.1267	$6.948 \times 10^{-2}$	$-1.127 \times 10^{-3}$	$2.278 \times 10^{-3}$	$2.951 \times 10^{-3}$
0.5800	0.1267	$7.272 \times 10^{-2}$	$-1.465 \times 10^{-3}$	$2.388 \times 10^{-3}$	$2.865 \times 10^{-3}$
0.5867	0.1267	$7.388 \times 10^{-2}$	$-1.603 \times 10^{-3}$	$2.418 \times 10^{-3}$	$2.836 \times 10^{-3}$
0.5933	0.1267	$7.631 \times 10^{-2}$	$-1.828 \times 10^{-3}$	$2.494 \times 10^{-3}$	$2.744 \times 10^{-3}$
0.6000	0.1267	$7.765 \times 10^{-2}$	$-2.009 \times 10^{-3}$	$2.515 \times 10^{-3}$	$2.704 \times 10^{-3}$
0.6067	0.1267	$7.935 \times 10^{-2}$	$-2.146 \times 10^{-3}$	$2.594 \times 10^{-3}$	$2.597 \times 10^{-3}$
0.6133	0.1267	$7.982 \times 10^{-2}$	$-2.196 \times 10^{-3}$	$2.610 \times 10^{-3}$	$2.577 \times 10^{-3}$
0.6200	0.1267	$8.103 \times 10^{-2}$	$-2.302 \times 10^{-3}$	$2.894 \times 10^{-3}$	$2.535 \times 10^{-3}$
0.6267	0.1267	$8.185 \times 10^{-2}$	$-2.502 \times 10^{-3}$	$3.134 \times 10^{-3}$	$2.562 \times 10^{-3}$
0.6333	0.1267	$8.212 \times 10^{-2}$	$-2.595 \times 10^{-3}$	$3.353 \times 10^{-3}$	$2.597 \times 10^{-3}$
0.6400	0.1267	$8.306 \times 10^{-2}$	$-3.204 \times 10^{-3}$	$3.570 \times 10^{-3}$	$2.770 \times 10^{-3}$
0.6467	0.1267	$8.337 \times 10^{-2}$	$-3.446 \times 10^{-3}$	$3.669 \times 10^{-3}$	$2.840 \times 10^{-3}$
0.6533	0.1267	$8.408 \times 10^{-2}$	$-3.793 \times 10^{-3}$	$4.427 \times 10^{-3}$	$3.107 \times 10^{-3}$
0.6600	0.1267	$8.474 \times 10^{-2}$	$-4.265 \times 10^{-3}$	$4.844 \times 10^{-3}$	$3.276 \times 10^{-3}$
0.6667	0.1267	$8.556 \times 10^{-2}$	$-4.836 \times 10^{-3}$	$5.333 \times 10^{-3}$	$3.477 \times 10^{-3}$
0.6733	0.1267	$8.692 \times 10^{-2}$	$-6.018 \times 10^{-3}$	$6.418 \times 10^{-3}$	$3.853 \times 10^{-3}$
0.6800	0.1267	$8.793 \times 10^{-2}$	$-6.627 \times 10^{-3}$	$6.976 \times 10^{-3}$	$4.083 \times 10^{-3}$
0.6867	0.1267	$9.090 \times 10^{-2}$	$-7.789 \times 10^{-3}$	$8.331 \times 10^{-3}$	$4.641 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.1267	$9.547 \times 10^{-2}$	$-9.064 \times 10^{-3}$	$9.637 \times 10^{-3}$	$5.244 \times 10^{-3}$
0.7000	0.1267	$1.008 \times 10^{-1}$	$-9.664 \times 10^{-3}$	$1.136 \times 10^{-2}$	$5.907 \times 10^{-3}$
0.7067	0.1267	$1.068 \times 10^{-1}$	$-1.003 \times 10^{-2}$	$1.267 \times 10^{-2}$	$6.524 \times 10^{-3}$
0.7133	0.1267	$1.110 \times 10^{-1}$	$-9.876 \times 10^{-3}$	$1.379 \times 10^{-2}$	$6.911 \times 10^{-3}$
0.7200	0.1267	$1.223 \times 10^{-1}$	$-9.434 \times 10^{-3}$	$1.529 \times 10^{-2}$	$7.821 \times 10^{-3}$
0.7267	0.1267	$1.340 \times 10^{-1}$	$-8.046 \times 10^{-3}$	$1.628 \times 10^{-2}$	$8.671 \times 10^{-3}$
0.7333	0.1267	$1.448 \times 10^{-1}$	$-5.265 \times 10^{-3}$	$1.675 \times 10^{-2}$	$9.432 \times 10^{-3}$
0.7400	0.1267	$1.527 \times 10^{-1}$	$-1.525 \times 10^{-3}$	$1.686 \times 10^{-2}$	$9.844 \times 10^{-3}$
0.7467	0.1267	$1.577 \times 10^{-1}$	$2.025 \times 10^{-3}$	$1.602 \times 10^{-2}$	$9.869 \times 10^{-3}$
0.7533	0.1267	$1.609 \times 10^{-1}$	$5.985 \times 10^{-3}$	$1.462 \times 10^{-2}$	$9.793 \times 10^{-3}$
0.7600	0.1267	$1.610 \times 10^{-1}$	$1.003 \times 10^{-2}$	$1.250 \times 10^{-2}$	$9.443 \times 10^{-3}$
0.7667	0.1267	$1.581 \times 10^{-1}$	$1.360 \times 10^{-2}$	$9.954 \times 10^{-3}$	$8.901 \times 10^{-3}$
0.7733	0.1267	$1.514 \times 10^{-1}$	$1.708 \times 10^{-2}$	$6.870 \times 10^{-3}$	$8.161 \times 10^{-3}$
0.7800	0.1267	$1.420 \times 10^{-1}$	$1.951 \times 10^{-2}$	$4.115 \times 10^{-3}$	$7.297 \times 10^{-3}$
0.7867	0.1267	$1.310 \times 10^{-1}$	$2.019 \times 10^{-2}$	$1.453 \times 10^{-3}$	$6.243 \times 10^{-3}$
0.7933	0.1267	$1.173 \times 10^{-1}$	$2.049 \times 10^{-2}$	$-9.545 \times 10^{-4}$	$5.207 \times 10^{-3}$
0.8000	0.1267	$1.048 \times 10^{-1}$	$1.956 \times 10^{-2}$	$-2.300 \times 10^{-3}$	$4.335 \times 10^{-3}$
0.8067	0.1267	$9.543 \times 10^{-2}$	$1.900 \times 10^{-2}$	$-3.438 \times 10^{-3}$	$3.779 \times 10^{-3}$
0.8133	0.1267	$8.865 \times 10^{-2}$	$1.817 \times 10^{-2}$	$-3.780 \times 10^{-3}$	$3.447 \times 10^{-3}$
0.8200	0.1267	$8.028 \times 10^{-2}$	$1.708 \times 10^{-2}$	$-3.934 \times 10^{-3}$	$3.006 \times 10^{-3}$
0.8267	0.1267	$7.168 \times 10^{-2}$	$1.615 \times 10^{-2}$	$-4.005 \times 10^{-3}$	$2.562 \times 10^{-3}$
0.8333	0.1267	$6.435 \times 10^{-2}$	$1.496 \times 10^{-2}$	$-4.155 \times 10^{-3}$	$2.167 \times 10^{-3}$
0.8400	0.1267	$5.851 \times 10^{-2}$	$1.381 \times 10^{-2}$	$-4.260 \times 10^{-3}$	$1.914 \times 10^{-3}$
0.8467	0.1267	$5.299 \times 10^{-2}$	$1.307 \times 10^{-2}$	$-4.410 \times 10^{-3}$	$1.779 \times 10^{-3}$
0.8533	0.1267	$4.864 \times 10^{-2}$	$1.238 \times 10^{-2}$	$-4.263 \times 10^{-3}$	$1.587 \times 10^{-3}$
0.8600	0.1267	$4.532 \times 10^{-2}$	$1.177 \times 10^{-2}$	$-4.333 \times 10^{-3}$	$1.431 \times 10^{-3}$
0.8667	0.1267	$4.218 \times 10^{-2}$	$1.135 \times 10^{-2}$	$-4.056 \times 10^{-3}$	$1.336 \times 10^{-3}$
0.8733	0.1267	$3.917 \times 10^{-2}$	$1.092 \times 10^{-2}$	$-4.170 \times 10^{-3}$	$1.234 \times 10^{-3}$
0.8800	0.1267	$3.680 \times 10^{-2}$	$1.036 \times 10^{-2}$	$-4.356 \times 10^{-3}$	$1.092 \times 10^{-3}$
0.8867	0.1267	$3.478 \times 10^{-2}$	$9.778 \times 10^{-3}$	$-4.429 \times 10^{-3}$	$1.003 \times 10^{-3}$
0.8933	0.1267	$3.232 \times 10^{-2}$	$9.102 \times 10^{-3}$	$-4.077 \times 10^{-3}$	$9.256 \times 10^{-4}$
0.9000	0.1267	$2.982 \times 10^{-2}$	$8.778 \times 10^{-3}$	$-3.718 \times 10^{-3}$	$9.087 \times 10^{-4}$
0.9067	0.1267	$2.808 \times 10^{-2}$	$8.613 \times 10^{-3}$	$-3.948 \times 10^{-3}$	$8.614 \times 10^{-4}$
0.9133	0.1267	$2.651 \times 10^{-2}$	$8.316 \times 10^{-3}$	$-3.733 \times 10^{-3}$	$7.762 \times 10^{-4}$
0.9200	0.1267	$2.452 \times 10^{-2}$	$7.748 \times 10^{-3}$	$-3.547 \times 10^{-3}$	$7.383 \times 10^{-4}$
0.9267	0.1267	$2.231 \times 10^{-2}$	$7.398 \times 10^{-3}$	$-3.582 \times 10^{-3}$	$7.244 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.1267	$2.048 \times 10^{-2}$	$7.026 \times 10^{-3}$	$-3.576 \times 10^{-3}$	$5.626 \times 10^{-4}$
0.9400	0.1267	$2.049 \times 10^{-2}$	$6.984 \times 10^{-3}$	$-3.645 \times 10^{-3}$	$5.180 \times 10^{-4}$
0.9467	0.1267	$1.972 \times 10^{-2}$	$6.695 \times 10^{-3}$	$-3.818 \times 10^{-3}$	$5.473 \times 10^{-4}$
0.9533	0.1267	$1.930 \times 10^{-2}$	$6.625 \times 10^{-3}$	$-3.984 \times 10^{-3}$	$5.773 \times 10^{-4}$
0.9600	0.1267	$1.761 \times 10^{-2}$	$6.232 \times 10^{-3}$	$-3.813 \times 10^{-3}$	$5.382 \times 10^{-4}$
0.9667	0.1267	$1.661 \times 10^{-2}$	$6.198 \times 10^{-3}$	$-3.635 \times 10^{-3}$	$5.078 \times 10^{-4}$
0.9733	0.1267	$1.590 \times 10^{-2}$	$5.896 \times 10^{-3}$	$-3.536 \times 10^{-3}$	$4.346 \times 10^{-4}$
0.9800	0.1267	$1.455 \times 10^{-2}$	$5.536 \times 10^{-3}$	$-3.250 \times 10^{-3}$	$3.663 \times 10^{-4}$
0.9867	0.1267	$1.349 \times 10^{-2}$	$5.299 \times 10^{-3}$	$-3.083 \times 10^{-3}$	$3.697 \times 10^{-4}$
0.9933	0.1267	$1.266 \times 10^{-2}$	$5.129 \times 10^{-3}$	$-2.889 \times 10^{-3}$	$3.611 \times 10^{-4}$
1.0000	0.1267	$1.281 \times 10^{-2}$	$5.395 \times 10^{-3}$	$-3.031 \times 10^{-3}$	$3.798 \times 10^{-4}$
0.4667	0.1333	$3.371 \times 10^{-2}$	$1.008 \times 10^{-2}$	$2.685 \times 10^{-4}$	$4.599 \times 10^{-3}$
0.4733	0.1333	$3.385 \times 10^{-2}$	$9.899 \times 10^{-3}$	$2.997 \times 10^{-4}$	$4.596 \times 10^{-3}$
0.4800	0.1333	$3.649 \times 10^{-2}$	$9.233 \times 10^{-3}$	$6.275 \times 10^{-4}$	$4.695 \times 10^{-3}$
0.4867	0.1333	$3.701 \times 10^{-2}$	$9.095 \times 10^{-3}$	$7.066 \times 10^{-4}$	$4.716 \times 10^{-3}$
0.4933	0.1333	$4.076 \times 10^{-2}$	$7.841 \times 10^{-3}$	$8.181 \times 10^{-4}$	$4.658 \times 10^{-3}$
0.5000	0.1333	$4.149 \times 10^{-2}$	$7.564 \times 10^{-3}$	$8.333 \times 10^{-4}$	$4.634 \times 10^{-3}$
0.5067	0.1333	$4.533 \times 10^{-2}$	$5.512 \times 10^{-3}$	$1.015 \times 10^{-3}$	$4.189 \times 10^{-3}$
0.5133	0.1333	$4.609 \times 10^{-2}$	$5.077 \times 10^{-3}$	$1.068 \times 10^{-3}$	$4.091 \times 10^{-3}$
0.5200	0.1333	$5.000 \times 10^{-2}$	$3.364 \times 10^{-3}$	$1.462 \times 10^{-3}$	$3.842 \times 10^{-3}$
0.5267	0.1333	$5.078 \times 10^{-2}$	$3.022 \times 10^{-3}$	$1.564 \times 10^{-3}$	$3.792 \times 10^{-3}$
0.5333	0.1333	$5.489 \times 10^{-2}$	$2.107 \times 10^{-3}$	$1.748 \times 10^{-3}$	$3.750 \times 10^{-3}$
0.5400	0.1333	$5.562 \times 10^{-2}$	$1.927 \times 10^{-3}$	$1.805 \times 10^{-3}$	$3.733 \times 10^{-3}$
0.5467	0.1333	$5.995 \times 10^{-2}$	$8.422 \times 10^{-4}$	$1.885 \times 10^{-3}$	$3.512 \times 10^{-3}$
0.5533	0.1333	$6.075 \times 10^{-2}$	$6.307 \times 10^{-4}$	$1.915 \times 10^{-3}$	$3.465 \times 10^{-3}$
0.5600	0.1333	$6.510 \times 10^{-2}$	$-2.861 \times 10^{-4}$	$2.117 \times 10^{-3}$	$3.133 \times 10^{-3}$
0.5667	0.1333	$6.593 \times 10^{-2}$	$-4.585 \times 10^{-4}$	$2.165 \times 10^{-3}$	$3.069 \times 10^{-3}$
0.5733	0.1333	$6.968 \times 10^{-2}$	$-1.035 \times 10^{-3}$	$2.362 \times 10^{-3}$	$2.933 \times 10^{-3}$
0.5800	0.1333	$7.039 \times 10^{-2}$	$-1.128 \times 10^{-3}$	$2.406 \times 10^{-3}$	$2.906 \times 10^{-3}$
0.5867	0.1333	$7.375 \times 10^{-2}$	$-1.416 \times 10^{-3}$	$2.493 \times 10^{-3}$	$2.821 \times 10^{-3}$
0.5933	0.1333	$7.435 \times 10^{-2}$	$-1.445 \times 10^{-3}$	$2.521 \times 10^{-3}$	$2.804 \times 10^{-3}$
0.6000	0.1333	$7.715 \times 10^{-2}$	$-1.826 \times 10^{-3}$	$2.679 \times 10^{-3}$	$2.656 \times 10^{-3}$
0.6067	0.1333	$7.758 \times 10^{-2}$	$-1.869 \times 10^{-3}$	$2.724 \times 10^{-3}$	$2.629 \times 10^{-3}$
0.6133	0.1333	$8.006 \times 10^{-2}$	$-2.051 \times 10^{-3}$	$2.932 \times 10^{-3}$	$2.542 \times 10^{-3}$
0.6200	0.1333	$8.040 \times 10^{-2}$	$-2.062 \times 10^{-3}$	$2.980 \times 10^{-3}$	$2.528 \times 10^{-3}$
0.6267	0.1333	$8.150 \times 10^{-2}$	$-2.400 \times 10^{-3}$	$3.238 \times 10^{-3}$	$2.567 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.1333	$8.206 \times 10^{-2}$	$-2.570 \times 10^{-3}$	$3.362 \times 10^{-3}$	$2.592 \times 10^{-3}$
0.6400	0.1333	$8.243 \times 10^{-2}$	$-2.800 \times 10^{-3}$	$3.580 \times 10^{-3}$	$2.685 \times 10^{-3}$
0.6467	0.1333	$8.282 \times 10^{-2}$	$-3.010 \times 10^{-3}$	$3.865 \times 10^{-3}$	$2.790 \times 10^{-3}$
0.6533	0.1333	$8.390 \times 10^{-2}$	$-3.680 \times 10^{-3}$	$4.440 \times 10^{-3}$	$3.085 \times 10^{-3}$
0.6600	0.1333	$8.402 \times 10^{-2}$	$-3.796 \times 10^{-3}$	$4.643 \times 10^{-3}$	$3.147 \times 10^{-3}$
0.6667	0.1333	$8.473 \times 10^{-2}$	$-4.562 \times 10^{-3}$	$5.523 \times 10^{-3}$	$3.406 \times 10^{-3}$
0.6733	0.1333	$8.604 \times 10^{-2}$	$-5.556 \times 10^{-3}$	$6.278 \times 10^{-3}$	$3.718 \times 10^{-3}$
0.6800	0.1333	$8.695 \times 10^{-2}$	$-6.131 \times 10^{-3}$	$6.754 \times 10^{-3}$	$3.922 \times 10^{-3}$
0.6867	0.1333	$8.993 \times 10^{-2}$	$-7.414 \times 10^{-3}$	$8.362 \times 10^{-3}$	$4.560 \times 10^{-3}$
0.6933	0.1333	$9.313 \times 10^{-2}$	$-8.244 \times 10^{-3}$	$9.530 \times 10^{-3}$	$5.018 \times 10^{-3}$
0.7000	0.1333	$9.581 \times 10^{-2}$	$-8.862 \times 10^{-3}$	$1.048 \times 10^{-2}$	$5.391 \times 10^{-3}$
0.7067	0.1333	$1.002 \times 10^{-1}$	$-9.067 \times 10^{-3}$	$1.191 \times 10^{-2}$	$5.920 \times 10^{-3}$
0.7133	0.1333	$1.086 \times 10^{-1}$	$-9.404 \times 10^{-3}$	$1.368 \times 10^{-2}$	$6.688 \times 10^{-3}$
0.7200	0.1333	$1.189 \times 10^{-1}$	$-9.050 \times 10^{-3}$	$1.517 \times 10^{-2}$	$7.511 \times 10^{-3}$
0.7267	0.1333	$1.278 \times 10^{-1}$	$-7.658 \times 10^{-3}$	$1.620 \times 10^{-2}$	$8.150 \times 10^{-3}$
0.7333	0.1333	$1.342 \times 10^{-1}$	$-6.128 \times 10^{-3}$	$1.697 \times 10^{-2}$	$8.662 \times 10^{-3}$
0.7400	0.1333	$1.432 \times 10^{-1}$	$-3.801 \times 10^{-3}$	$1.758 \times 10^{-2}$	$9.321 \times 10^{-3}$
0.7467	0.1333	$1.519 \times 10^{-1}$	$-4.707 \times 10^{-4}$	$1.715 \times 10^{-2}$	$9.647 \times 10^{-3}$
0.7533	0.1333	$1.583 \times 10^{-1}$	$3.782 \times 10^{-3}$	$1.580 \times 10^{-2}$	$9.769 \times 10^{-3}$
0.7600	0.1333	$1.599 \times 10^{-1}$	$8.161 \times 10^{-3}$	$1.369 \times 10^{-2}$	$9.502 \times 10^{-3}$
0.7667	0.1333	$1.585 \times 10^{-1}$	$1.169 \times 10^{-2}$	$1.155 \times 10^{-2}$	$9.069 \times 10^{-3}$
0.7733	0.1333	$1.538 \times 10^{-1}$	$1.529 \times 10^{-2}$	$8.711 \times 10^{-3}$	$8.475 \times 10^{-3}$
0.7800	0.1333	$1.467 \times 10^{-1}$	$1.803 \times 10^{-2}$	$6.048 \times 10^{-3}$	$7.737 \times 10^{-3}$
0.7867	0.1333	$1.405 \times 10^{-1}$	$1.930 \times 10^{-2}$	$4.326 \times 10^{-3}$	$7.025 \times 10^{-3}$
0.7933	0.1333	$1.291 \times 10^{-1}$	$2.041 \times 10^{-2}$	$1.142 \times 10^{-3}$	$6.044 \times 10^{-3}$
0.8000	0.1333	$1.159 \times 10^{-1}$	$1.997 \times 10^{-2}$	$-1.100 \times 10^{-3}$	$5.096 \times 10^{-3}$
0.8067	0.1333	$1.030 \times 10^{-1}$	$1.934 \times 10^{-2}$	$-2.717 \times 10^{-3}$	$4.236 \times 10^{-3}$
0.8133	0.1333	$9.271 \times 10^{-2}$	$1.853 \times 10^{-2}$	$-3.734 \times 10^{-3}$	$3.644 \times 10^{-3}$
0.8200	0.1333	$8.212 \times 10^{-2}$	$1.722 \times 10^{-2}$	$-4.081 \times 10^{-3}$	$3.054 \times 10^{-3}$
0.8267	0.1333	$7.610 \times 10^{-2}$	$1.644 \times 10^{-2}$	$-4.234 \times 10^{-3}$	$2.776 \times 10^{-3}$
0.8333	0.1333	$7.154 \times 10^{-2}$	$1.576 \times 10^{-2}$	$-4.361 \times 10^{-3}$	$2.545 \times 10^{-3}$
0.8400	0.1333	$6.474 \times 10^{-2}$	$1.477 \times 10^{-2}$	$-4.745 \times 10^{-3}$	$2.173 \times 10^{-3}$
0.8467	0.1333	$5.835 \times 10^{-2}$	$1.385 \times 10^{-2}$	$-5.023 \times 10^{-3}$	$1.910 \times 10^{-3}$
0.8533	0.1333	$5.292 \times 10^{-2}$	$1.319 \times 10^{-2}$	$-4.996 \times 10^{-3}$	$1.799 \times 10^{-3}$
0.8600	0.1333	$4.932 \times 10^{-2}$	$1.253 \times 10^{-2}$	$-4.771 \times 10^{-3}$	$1.647 \times 10^{-3}$
0.8667	0.1333	$4.616 \times 10^{-2}$	$1.196 \times 10^{-2}$	$-4.535 \times 10^{-3}$	$1.539 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.1333	$4.217 \times 10^{-2}$	$1.120 \times 10^{-2}$	$-4.471 \times 10^{-3}$	$1.363 \times 10^{-3}$
0.8800	0.1333	$3.918 \times 10^{-2}$	$1.062 \times 10^{-2}$	$-4.465 \times 10^{-3}$	$1.171 \times 10^{-3}$
0.8867	0.1333	$3.572 \times 10^{-2}$	$9.962 \times 10^{-3}$	$-4.844 \times 10^{-3}$	$1.034 \times 10^{-3}$
0.8933	0.1333	$3.371 \times 10^{-2}$	$9.411 \times 10^{-3}$	$-4.508 \times 10^{-3}$	$9.759 \times 10^{-4}$
0.9000	0.1333	$3.175 \times 10^{-2}$	$9.068 \times 10^{-3}$	$-4.168 \times 10^{-3}$	$9.441 \times 10^{-4}$
0.9067	0.1333	$2.984 \times 10^{-2}$	$8.673 \times 10^{-3}$	$-4.291 \times 10^{-3}$	$8.804 \times 10^{-4}$
0.9133	0.1333	$2.792 \times 10^{-2}$	$8.160 \times 10^{-3}$	$-3.911 \times 10^{-3}$	$7.964 \times 10^{-4}$
0.9200	0.1333	$2.631 \times 10^{-2}$	$7.537 \times 10^{-3}$	$-3.835 \times 10^{-3}$	$7.208 \times 10^{-4}$
0.9267	0.1333	$2.486 \times 10^{-2}$	$7.312 \times 10^{-3}$	$-3.874 \times 10^{-3}$	$6.677 \times 10^{-4}$
0.9333	0.1333	$2.285 \times 10^{-2}$	$7.056 \times 10^{-3}$	$-3.794 \times 10^{-3}$	$6.453 \times 10^{-4}$
0.9400	0.1333	$2.148 \times 10^{-2}$	$6.830 \times 10^{-3}$	$-3.772 \times 10^{-3}$	$6.265 \times 10^{-4}$
0.9467	0.1333	$2.080 \times 10^{-2}$	$6.876 \times 10^{-3}$	$-3.902 \times 10^{-3}$	$5.658 \times 10^{-4}$
0.9533	0.1333	$1.986 \times 10^{-2}$	$6.749 \times 10^{-3}$	$-4.123 \times 10^{-3}$	$6.030 \times 10^{-4}$
0.9600	0.1333	$1.879 \times 10^{-2}$	$6.432 \times 10^{-3}$	$-3.996 \times 10^{-3}$	$5.475 \times 10^{-4}$
0.9667	0.1333	$1.797 \times 10^{-2}$	$6.283 \times 10^{-3}$	$-3.909 \times 10^{-3}$	$5.124 \times 10^{-4}$
0.9733	0.1333	$1.680 \times 10^{-2}$	$6.052 \times 10^{-3}$	$-3.832 \times 10^{-3}$	$4.607 \times 10^{-4}$
0.9800	0.1333	$1.496 \times 10^{-2}$	$5.727 \times 10^{-3}$	$-3.468 \times 10^{-3}$	$4.057 \times 10^{-4}$
0.9867	0.1333	$1.448 \times 10^{-2}$	$5.636 \times 10^{-3}$	$-3.387 \times 10^{-3}$	$3.936 \times 10^{-4}$
0.9933	0.1333	$1.344 \times 10^{-2}$	$5.600 \times 10^{-3}$	$-3.163 \times 10^{-3}$	$3.922 \times 10^{-4}$
1.0000	0.1333	$1.295 \times 10^{-2}$	$5.471 \times 10^{-3}$	$-3.072 \times 10^{-3}$	$3.851 \times 10^{-4}$
0.4667	0.1400	$3.338 \times 10^{-2}$	$1.020 \times 10^{-2}$	$2.839 \times 10^{-4}$	$4.574 \times 10^{-3}$
0.4733	0.1400	$3.400 \times 10^{-2}$	$9.867 \times 10^{-3}$	$3.569 \times 10^{-4}$	$4.581 \times 10^{-3}$
0.4800	0.1400	$3.579 \times 10^{-2}$	$9.369 \times 10^{-3}$	$6.379 \times 10^{-4}$	$4.611 \times 10^{-3}$
0.4867	0.1400	$3.713 \times 10^{-2}$	$8.992 \times 10^{-3}$	$7.308 \times 10^{-4}$	$4.677 \times 10^{-3}$
0.4933	0.1400	$3.964 \times 10^{-2}$	$8.066 \times 10^{-3}$	$8.514 \times 10^{-4}$	$4.604 \times 10^{-3}$
0.5000	0.1400	$4.157 \times 10^{-2}$	$7.428 \times 10^{-3}$	$8.743 \times 10^{-4}$	$4.583 \times 10^{-3}$
0.5067	0.1400	$4.425 \times 10^{-2}$	$5.979 \times 10^{-3}$	$1.036 \times 10^{-3}$	$4.271 \times 10^{-3}$
0.5133	0.1400	$4.619 \times 10^{-2}$	$5.031 \times 10^{-3}$	$1.096 \times 10^{-3}$	$4.078 \times 10^{-3}$
0.5200	0.1400	$4.893 \times 10^{-2}$	$3.804 \times 10^{-3}$	$1.355 \times 10^{-3}$	$3.876 \times 10^{-3}$
0.5267	0.1400	$5.089 \times 10^{-2}$	$3.043 \times 10^{-3}$	$1.545 \times 10^{-3}$	$3.799 \times 10^{-3}$
0.5333	0.1400	$5.373 \times 10^{-2}$	$2.383 \times 10^{-3}$	$1.676 \times 10^{-3}$	$3.765 \times 10^{-3}$
0.5400	0.1400	$5.573 \times 10^{-2}$	$1.918 \times 10^{-3}$	$1.811 \times 10^{-3}$	$3.727 \times 10^{-3}$
0.5467	0.1400	$5.868 \times 10^{-2}$	$1.218 \times 10^{-3}$	$1.910 \times 10^{-3}$	$3.594 \times 10^{-3}$
0.5533	0.1400	$6.084 \times 10^{-2}$	$6.607 \times 10^{-4}$	$1.950 \times 10^{-3}$	$3.460 \times 10^{-3}$
0.5600	0.1400	$6.383 \times 10^{-2}$	$7.334 \times 10^{-5}$	$2.120 \times 10^{-3}$	$3.245 \times 10^{-3}$
0.5667	0.1400	$6.591 \times 10^{-2}$	$-4.286 \times 10^{-4}$	$2.195 \times 10^{-3}$	$3.082 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.1400	$6.840 \times 10^{-2}$	$-8.202 \times 10^{-4}$	$2.360 \times 10^{-3}$	$2.982 \times 10^{-3}$
0.5800	0.1400	$7.034 \times 10^{-2}$	$-1.095 \times 10^{-3}$	$2.409 \times 10^{-3}$	$2.907 \times 10^{-3}$
0.5867	0.1400	$7.252 \times 10^{-2}$	$-1.267 \times 10^{-3}$	$2.473 \times 10^{-3}$	$2.843 \times 10^{-3}$
0.5933	0.1400	$7.426 \times 10^{-2}$	$-1.451 \times 10^{-3}$	$2.537 \times 10^{-3}$	$2.786 \times 10^{-3}$
0.6000	0.1400	$7.602 \times 10^{-2}$	$-1.695 \times 10^{-3}$	$2.671 \times 10^{-3}$	$2.667 \times 10^{-3}$
0.6067	0.1400	$7.751 \times 10^{-2}$	$-1.827 \times 10^{-3}$	$2.766 \times 10^{-3}$	$2.618 \times 10^{-3}$
0.6133	0.1400	$7.887 \times 10^{-2}$	$-1.872 \times 10^{-3}$	$2.966 \times 10^{-3}$	$2.549 \times 10^{-3}$
0.6200	0.1400	$8.007 \times 10^{-2}$	$-2.005 \times 10^{-3}$	$3.078 \times 10^{-3}$	$2.522 \times 10^{-3}$
0.6267	0.1400	$8.030 \times 10^{-2}$	$-2.028 \times 10^{-3}$	$3.324 \times 10^{-3}$	$2.505 \times 10^{-3}$
0.6333	0.1400	$8.135 \times 10^{-2}$	$-2.364 \times 10^{-3}$	$3.466 \times 10^{-3}$	$2.572 \times 10^{-3}$
0.6400	0.1400	$8.207 \times 10^{-2}$	$-2.645 \times 10^{-3}$	$3.696 \times 10^{-3}$	$2.667 \times 10^{-3}$
0.6467	0.1400	$8.268 \times 10^{-2}$	$-2.909 \times 10^{-3}$	$3.825 \times 10^{-3}$	$2.756 \times 10^{-3}$
0.6533	0.1400	$8.305 \times 10^{-2}$	$-3.187 \times 10^{-3}$	$4.372 \times 10^{-3}$	$2.955 \times 10^{-3}$
0.6600	0.1400	$8.331 \times 10^{-2}$	$-3.353 \times 10^{-3}$	$4.695 \times 10^{-3}$	$3.078 \times 10^{-3}$
0.6667	0.1400	$8.431 \times 10^{-2}$	$-4.404 \times 10^{-3}$	$5.570 \times 10^{-3}$	$3.360 \times 10^{-3}$
0.6733	0.1400	$8.447 \times 10^{-2}$	$-4.545 \times 10^{-3}$	$5.699 \times 10^{-3}$	$3.405 \times 10^{-3}$
0.6800	0.1400	$8.625 \times 10^{-2}$	$-5.876 \times 10^{-3}$	$7.288 \times 10^{-3}$	$3.922 \times 10^{-3}$
0.6867	0.1400	$8.651 \times 10^{-2}$	$-5.992 \times 10^{-3}$	$7.423 \times 10^{-3}$	$3.976 \times 10^{-3}$
0.6933	0.1400	$9.077 \times 10^{-2}$	$-7.294 \times 10^{-3}$	$9.339 \times 10^{-3}$	$4.747 \times 10^{-3}$
0.7000	0.1400	$9.129 \times 10^{-2}$	$-7.404 \times 10^{-3}$	$9.597 \times 10^{-3}$	$4.833 \times 10^{-3}$
0.7067	0.1400	$9.817 \times 10^{-2}$	$-8.487 \times 10^{-3}$	$1.183 \times 10^{-2}$	$5.674 \times 10^{-3}$
0.7133	0.1400	$1.058 \times 10^{-1}$	$-8.998 \times 10^{-3}$	$1.342 \times 10^{-2}$	$6.423 \times 10^{-3}$
0.7200	0.1400	$1.111 \times 10^{-1}$	$-8.498 \times 10^{-3}$	$1.444 \times 10^{-2}$	$6.891 \times 10^{-3}$
0.7267	0.1400	$1.183 \times 10^{-1}$	$-7.910 \times 10^{-3}$	$1.546 \times 10^{-2}$	$7.491 \times 10^{-3}$
0.7333	0.1400	$1.293 \times 10^{-1}$	$-6.500 \times 10^{-3}$	$1.693 \times 10^{-2}$	$8.322 \times 10^{-3}$
0.7400	0.1400	$1.399 \times 10^{-1}$	$-4.225 \times 10^{-3}$	$1.789 \times 10^{-2}$	$9.112 \times 10^{-3}$
0.7467	0.1400	$1.467 \times 10^{-1}$	$-1.689 \times 10^{-3}$	$1.764 \times 10^{-2}$	$9.329 \times 10^{-3}$
0.7533	0.1400	$1.515 \times 10^{-1}$	$1.364 \times 10^{-3}$	$1.699 \times 10^{-2}$	$9.489 \times 10^{-3}$
0.7600	0.1400	$1.555 \times 10^{-1}$	$5.117 \times 10^{-3}$	$1.603 \times 10^{-2}$	$9.518 \times 10^{-3}$
0.7667	0.1400	$1.574 \times 10^{-1}$	$9.053 \times 10^{-3}$	$1.413 \times 10^{-2}$	$9.259 \times 10^{-3}$
0.7733	0.1400	$1.558 \times 10^{-1}$	$1.279 \times 10^{-2}$	$1.139 \times 10^{-2}$	$8.740 \times 10^{-3}$
0.7800	0.1400	$1.500 \times 10^{-1}$	$1.614 \times 10^{-2}$	$8.418 \times 10^{-3}$	$7.968 \times 10^{-3}$
0.7867	0.1400	$1.408 \times 10^{-1}$	$1.878 \times 10^{-2}$	$5.004 \times 10^{-3}$	$7.138 \times 10^{-3}$
0.7933	0.1400	$1.317 \times 10^{-1}$	$1.999 \times 10^{-2}$	$2.163 \times 10^{-3}$	$6.306 \times 10^{-3}$
0.8000	0.1400	$1.202 \times 10^{-1}$	$2.005 \times 10^{-2}$	$-3.818 \times 10^{-4}$	$5.429 \times 10^{-3}$
0.8067	0.1400	$1.132 \times 10^{-1}$	$1.981 \times 10^{-2}$	$-1.343 \times 10^{-3}$	$4.920 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.1400	$1.040 \times 10^{-1}$	$1.944 \times 10^{-2}$	$-2.737 \times 10^{-3}$	$4.320 \times 10^{-3}$
0.8200	0.1400	$9.394 \times 10^{-2}$	$1.868 \times 10^{-2}$	$-3.953 \times 10^{-3}$	$3.686 \times 10^{-3}$
0.8267	0.1400	$8.356 \times 10^{-2}$	$1.756 \times 10^{-2}$	$-4.431 \times 10^{-3}$	$3.153 \times 10^{-3}$
0.8333	0.1400	$7.495 \times 10^{-2}$	$1.637 \times 10^{-2}$	$-4.664 \times 10^{-3}$	$2.647 \times 10^{-3}$
0.8400	0.1400	$6.806 \times 10^{-2}$	$1.550 \times 10^{-2}$	$-5.063 \times 10^{-3}$	$2.338 \times 10^{-3}$
0.8467	0.1400	$6.326 \times 10^{-2}$	$1.478 \times 10^{-2}$	$-5.178 \times 10^{-3}$	$2.119 \times 10^{-3}$
0.8533	0.1400	$5.871 \times 10^{-2}$	$1.422 \times 10^{-2}$	$-5.321 \times 10^{-3}$	$1.989 \times 10^{-3}$
0.8600	0.1400	$5.205 \times 10^{-2}$	$1.312 \times 10^{-2}$	$-5.082 \times 10^{-3}$	$1.704 \times 10^{-3}$
0.8667	0.1400	$4.735 \times 10^{-2}$	$1.228 \times 10^{-2}$	$-5.107 \times 10^{-3}$	$1.583 \times 10^{-3}$
0.8733	0.1400	$4.477 \times 10^{-2}$	$1.167 \times 10^{-2}$	$-4.923 \times 10^{-3}$	$1.420 \times 10^{-3}$
0.8800	0.1400	$4.240 \times 10^{-2}$	$1.131 \times 10^{-2}$	$-4.947 \times 10^{-3}$	$1.328 \times 10^{-3}$
0.8867	0.1400	$4.046 \times 10^{-2}$	$1.117 \times 10^{-2}$	$-5.208 \times 10^{-3}$	$1.294 \times 10^{-3}$
0.8933	0.1400	$3.768 \times 10^{-2}$	$1.039 \times 10^{-2}$	$-5.124 \times 10^{-3}$	$1.186 \times 10^{-3}$
0.9000	0.1400	$3.515 \times 10^{-2}$	$9.668 \times 10^{-3}$	$-4.734 \times 10^{-3}$	$1.011 \times 10^{-3}$
0.9067	0.1400	$3.314 \times 10^{-2}$	$9.234 \times 10^{-3}$	$-4.601 \times 10^{-3}$	$9.133 \times 10^{-4}$
0.9133	0.1400	$3.073 \times 10^{-2}$	$8.511 \times 10^{-3}$	$-4.410 \times 10^{-3}$	$8.617 \times 10^{-4}$
0.9200	0.1400	$2.835 \times 10^{-2}$	$7.936 \times 10^{-3}$	$-4.030 \times 10^{-3}$	$7.717 \times 10^{-4}$
0.9267	0.1400	$2.669 \times 10^{-2}$	$7.579 \times 10^{-3}$	$-4.025 \times 10^{-3}$	$6.876 \times 10^{-4}$
0.9333	0.1400	$2.404 \times 10^{-2}$	$7.283 \times 10^{-3}$	$-3.947 \times 10^{-3}$	$6.803 \times 10^{-4}$
0.9400	0.1400	$2.318 \times 10^{-2}$	$7.123 \times 10^{-3}$	$-4.222 \times 10^{-3}$	$6.951 \times 10^{-4}$
0.9467	0.1400	$2.213 \times 10^{-2}$	$6.930 \times 10^{-3}$	$-4.284 \times 10^{-3}$	$6.354 \times 10^{-4}$
0.9533	0.1400	$2.191 \times 10^{-2}$	$6.848 \times 10^{-3}$	$-4.332 \times 10^{-3}$	$6.106 \times 10^{-4}$
0.9600	0.1400	$1.966 \times 10^{-2}$	$6.489 \times 10^{-3}$	$-4.082 \times 10^{-3}$	$5.473 \times 10^{-4}$
0.9667	0.1400	$1.926 \times 10^{-2}$	$6.360 \times 10^{-3}$	$-3.976 \times 10^{-3}$	$5.098 \times 10^{-4}$
0.9733	0.1400	$1.754 \times 10^{-2}$	$6.314 \times 10^{-3}$	$-3.837 \times 10^{-3}$	$4.762 \times 10^{-4}$
0.9800	0.1400	$1.694 \times 10^{-2}$	$6.367 \times 10^{-3}$	$-3.780 \times 10^{-3}$	$4.681 \times 10^{-4}$
0.9867	0.1400	$1.496 \times 10^{-2}$	$6.158 \times 10^{-3}$	$-3.530 \times 10^{-3}$	$4.210 \times 10^{-4}$
0.9933	0.1400	$1.479 \times 10^{-2}$	$6.160 \times 10^{-3}$	$-3.497 \times 10^{-3}$	$4.198 \times 10^{-4}$
1.0000	0.1400	$1.386 \times 10^{-2}$	$6.142 \times 10^{-3}$	$-3.154 \times 10^{-3}$	$4.346 \times 10^{-4}$
0.4667	0.1467	$3.279 \times 10^{-2}$	$1.039 \times 10^{-2}$	$2.692 \times 10^{-4}$	$4.534 \times 10^{-3}$
0.4733	0.1467	$3.446 \times 10^{-2}$	$9.720 \times 10^{-3}$	$5.973 \times 10^{-4}$	$4.493 \times 10^{-3}$
0.4800	0.1467	$3.471 \times 10^{-2}$	$9.612 \times 10^{-3}$	$6.643 \times 10^{-4}$	$4.478 \times 10^{-3}$
0.4867	0.1467	$3.751 \times 10^{-2}$	$8.602 \times 10^{-3}$	$8.601 \times 10^{-4}$	$4.541 \times 10^{-3}$
0.4933	0.1467	$3.791 \times 10^{-2}$	$8.436 \times 10^{-3}$	$9.040 \times 10^{-4}$	$4.537 \times 10^{-3}$
0.5000	0.1467	$4.206 \times 10^{-2}$	$6.940 \times 10^{-3}$	$1.043 \times 10^{-3}$	$4.438 \times 10^{-3}$
0.5067	0.1467	$4.268 \times 10^{-2}$	$6.682 \times 10^{-3}$	$1.069 \times 10^{-3}$	$4.411 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.1467	$4.675 \times 10^{-2}$	$4.723 \times 10^{-3}$	$1.158 \times 10^{-3}$	$3.972 \times 10^{-3}$
0.5200	0.1467	$4.737 \times 10^{-2}$	$4.398 \times 10^{-3}$	$1.175 \times 10^{-3}$	$3.894 \times 10^{-3}$
0.5267	0.1467	$5.147 \times 10^{-2}$	$2.973 \times 10^{-3}$	$1.494 \times 10^{-3}$	$3.808 \times 10^{-3}$
0.5333	0.1467	$5.211 \times 10^{-2}$	$2.747 \times 10^{-3}$	$1.539 \times 10^{-3}$	$3.791 \times 10^{-3}$
0.5400	0.1467	$5.625 \times 10^{-2}$	$1.893 \times 10^{-3}$	$1.887 \times 10^{-3}$	$3.736 \times 10^{-3}$
0.5467	0.1467	$5.689 \times 10^{-2}$	$1.764 \times 10^{-3}$	$1.942 \times 10^{-3}$	$3.730 \times 10^{-3}$
0.5533	0.1467	$6.141 \times 10^{-2}$	$7.356 \times 10^{-4}$	$2.083 \times 10^{-3}$	$3.444 \times 10^{-3}$
0.5600	0.1467	$6.212 \times 10^{-2}$	$5.894 \times 10^{-4}$	$2.111 \times 10^{-3}$	$3.404 \times 10^{-3}$
0.5667	0.1467	$6.604 \times 10^{-2}$	$-4.169 \times 10^{-4}$	$2.333 \times 10^{-3}$	$3.090 \times 10^{-3}$
0.5733	0.1467	$6.664 \times 10^{-2}$	$-5.685 \times 10^{-4}$	$2.370 \times 10^{-3}$	$3.044 \times 10^{-3}$
0.5800	0.1467	$7.034 \times 10^{-2}$	$-1.004 \times 10^{-3}$	$2.419 \times 10^{-3}$	$2.902 \times 10^{-3}$
0.5867	0.1467	$7.091 \times 10^{-2}$	$-1.069 \times 10^{-3}$	$2.420 \times 10^{-3}$	$2.881 \times 10^{-3}$
0.5933	0.1467	$7.403 \times 10^{-2}$	$-1.501 \times 10^{-3}$	$2.600 \times 10^{-3}$	$2.703 \times 10^{-3}$
0.6000	0.1467	$7.450 \times 10^{-2}$	$-1.575 \times 10^{-3}$	$2.621 \times 10^{-3}$	$2.672 \times 10^{-3}$
0.6067	0.1467	$7.749 \times 10^{-2}$	$-1.681 \times 10^{-3}$	$2.956 \times 10^{-3}$	$2.563 \times 10^{-3}$
0.6133	0.1467	$7.795 \times 10^{-2}$	$-1.694 \times 10^{-3}$	$3.010 \times 10^{-3}$	$2.542 \times 10^{-3}$
0.6200	0.1467	$7.964 \times 10^{-2}$	$-1.879 \times 10^{-3}$	$3.314 \times 10^{-3}$	$2.491 \times 10^{-3}$
0.6267	0.1467	$7.996 \times 10^{-2}$	$-1.908 \times 10^{-3}$	$3.386 \times 10^{-3}$	$2.477 \times 10^{-3}$
0.6333	0.1467	$8.091 \times 10^{-2}$	$-2.197 \times 10^{-3}$	$3.535 \times 10^{-3}$	$2.535 \times 10^{-3}$
0.6400	0.1467	$8.133 \times 10^{-2}$	$-2.307 \times 10^{-3}$	$3.603 \times 10^{-3}$	$2.552 \times 10^{-3}$
0.6467	0.1467	$8.192 \times 10^{-2}$	$-2.576 \times 10^{-3}$	$4.009 \times 10^{-3}$	$2.721 \times 10^{-3}$
0.6533	0.1467	$8.207 \times 10^{-2}$	$-2.646 \times 10^{-3}$	$4.342 \times 10^{-3}$	$2.815 \times 10^{-3}$
0.6600	0.1467	$8.292 \times 10^{-2}$	$-3.191 \times 10^{-3}$	$4.804 \times 10^{-3}$	$3.036 \times 10^{-3}$
0.6667	0.1467	$8.296 \times 10^{-2}$	$-3.294 \times 10^{-3}$	$5.142 \times 10^{-3}$	$3.102 \times 10^{-3}$
0.6733	0.1467	$8.390 \times 10^{-2}$	$-4.269 \times 10^{-3}$	$6.011 \times 10^{-3}$	$3.390 \times 10^{-3}$
0.6800	0.1467	$8.430 \times 10^{-2}$	$-4.607 \times 10^{-3}$	$6.396 \times 10^{-3}$	$3.515 \times 10^{-3}$
0.6867	0.1467	$8.598 \times 10^{-2}$	$-5.695 \times 10^{-3}$	$7.661 \times 10^{-3}$	$4.022 \times 10^{-3}$
0.6933	0.1467	$8.710 \times 10^{-2}$	$-6.093 \times 10^{-3}$	$8.270 \times 10^{-3}$	$4.249 \times 10^{-3}$
0.7000	0.1467	$9.069 \times 10^{-2}$	$-7.106 \times 10^{-3}$	$9.810 \times 10^{-3}$	$4.785 \times 10^{-3}$
0.7067	0.1467	$9.609 \times 10^{-2}$	$-8.050 \times 10^{-3}$	$1.161 \times 10^{-2}$	$5.444 \times 10^{-3}$
0.7133	0.1467	$9.949 \times 10^{-2}$	$-8.095 \times 10^{-3}$	$1.261 \times 10^{-2}$	$5.793 \times 10^{-3}$
0.7200	0.1467	$1.053 \times 10^{-1}$	$-8.251 \times 10^{-3}$	$1.388 \times 10^{-2}$	$6.388 \times 10^{-3}$
0.7267	0.1467	$1.153 \times 10^{-1}$	$-7.611 \times 10^{-3}$	$1.528 \times 10^{-2}$	$7.262 \times 10^{-3}$
0.7333	0.1467	$1.243 \times 10^{-1}$	$-6.519 \times 10^{-3}$	$1.674 \times 10^{-2}$	$7.936 \times 10^{-3}$
0.7400	0.1467	$1.295 \times 10^{-1}$	$-5.495 \times 10^{-3}$	$1.737 \times 10^{-2}$	$8.204 \times 10^{-3}$
0.7467	0.1467	$1.379 \times 10^{-1}$	$-3.732 \times 10^{-3}$	$1.782 \times 10^{-2}$	$8.688 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.1467	$1.469 \times 10^{-1}$	$-3.922 \times 10^{-4}$	$1.777 \times 10^{-2}$	$9.254 \times 10^{-3}$
0.7600	0.1467	$1.529 \times 10^{-1}$	$3.852 \times 10^{-3}$	$1.701 \times 10^{-2}$	$9.447 \times 10^{-3}$
0.7667	0.1467	$1.556 \times 10^{-1}$	$7.645 \times 10^{-3}$	$1.525 \times 10^{-2}$	$9.255 \times 10^{-3}$
0.7733	0.1467	$1.554 \times 10^{-1}$	$1.076 \times 10^{-2}$	$1.317 \times 10^{-2}$	$8.882 \times 10^{-3}$
0.7800	0.1467	$1.540 \times 10^{-1}$	$1.315 \times 10^{-2}$	$1.174 \times 10^{-2}$	$8.444 \times 10^{-3}$
0.7867	0.1467	$1.486 \times 10^{-1}$	$1.616 \times 10^{-2}$	$8.396 \times 10^{-3}$	$7.830 \times 10^{-3}$
0.7933	0.1467	$1.391 \times 10^{-1}$	$1.875 \times 10^{-2}$	$4.857 \times 10^{-3}$	$6.913 \times 10^{-3}$
0.8000	0.1467	$1.297 \times 10^{-1}$	$1.983 \times 10^{-2}$	$1.586 \times 10^{-3}$	$6.123 \times 10^{-3}$
0.8067	0.1467	$1.197 \times 10^{-1}$	$1.978 \times 10^{-2}$	$2.621 \times 10^{-5}$	$5.306 \times 10^{-3}$
0.8133	0.1467	$1.090 \times 10^{-1}$	$1.958 \times 10^{-2}$	$-1.918 \times 10^{-3}$	$4.578 \times 10^{-3}$
0.8200	0.1467	$9.841 \times 10^{-2}$	$1.898 \times 10^{-2}$	$-3.326 \times 10^{-3}$	$3.872 \times 10^{-3}$
0.8267	0.1467	$9.368 \times 10^{-2}$	$1.834 \times 10^{-2}$	$-3.724 \times 10^{-3}$	$3.583 \times 10^{-3}$
0.8333	0.1467	$8.587 \times 10^{-2}$	$1.764 \times 10^{-2}$	$-4.475 \times 10^{-3}$	$3.134 \times 10^{-3}$
0.8400	0.1467	$7.612 \times 10^{-2}$	$1.669 \times 10^{-2}$	$-4.846 \times 10^{-3}$	$2.674 \times 10^{-3}$
0.8467	0.1467	$6.875 \times 10^{-2}$	$1.554 \times 10^{-2}$	$-5.038 \times 10^{-3}$	$2.329 \times 10^{-3}$
0.8533	0.1467	$6.591 \times 10^{-2}$	$1.511 \times 10^{-2}$	$-5.275 \times 10^{-3}$	$2.250 \times 10^{-3}$
0.8600	0.1467	$5.885 \times 10^{-2}$	$1.402 \times 10^{-2}$	$-5.231 \times 10^{-3}$	$1.905 \times 10^{-3}$
0.8667	0.1467	$5.304 \times 10^{-2}$	$1.314 \times 10^{-2}$	$-5.411 \times 10^{-3}$	$1.681 \times 10^{-3}$
0.8733	0.1467	$5.097 \times 10^{-2}$	$1.277 \times 10^{-2}$	$-5.378 \times 10^{-3}$	$1.601 \times 10^{-3}$
0.8800	0.1467	$4.712 \times 10^{-2}$	$1.207 \times 10^{-2}$	$-5.418 \times 10^{-3}$	$1.471 \times 10^{-3}$
0.8867	0.1467	$4.367 \times 10^{-2}$	$1.182 \times 10^{-2}$	$-5.579 \times 10^{-3}$	$1.453 \times 10^{-3}$
0.8933	0.1467	$4.049 \times 10^{-2}$	$1.086 \times 10^{-2}$	$-5.266 \times 10^{-3}$	$1.296 \times 10^{-3}$
0.9000	0.1467	$3.707 \times 10^{-2}$	$1.011 \times 10^{-2}$	$-4.975 \times 10^{-3}$	$1.089 \times 10^{-3}$
0.9067	0.1467	$3.480 \times 10^{-2}$	$9.712 \times 10^{-3}$	$-4.827 \times 10^{-3}$	$9.553 \times 10^{-4}$
0.9133	0.1467	$3.224 \times 10^{-2}$	$8.913 \times 10^{-3}$	$-4.781 \times 10^{-3}$	$9.058 \times 10^{-4}$
0.9200	0.1467	$3.032 \times 10^{-2}$	$8.452 \times 10^{-3}$	$-4.512 \times 10^{-3}$	$8.196 \times 10^{-4}$
0.9267	0.1467	$2.916 \times 10^{-2}$	$8.178 \times 10^{-3}$	$-4.539 \times 10^{-3}$	$7.601 \times 10^{-4}$
0.9333	0.1467	$2.724 \times 10^{-2}$	$7.752 \times 10^{-3}$	$-4.473 \times 10^{-3}$	$7.002 \times 10^{-4}$
0.9400	0.1467	$2.465 \times 10^{-2}$	$7.165 \times 10^{-3}$	$-4.504 \times 10^{-3}$	$6.866 \times 10^{-4}$
0.9467	0.1467	$2.542 \times 10^{-2}$	$6.968 \times 10^{-3}$	$-4.654 \times 10^{-3}$	$6.168 \times 10^{-4}$
0.9533	0.1467	$2.296 \times 10^{-2}$	$6.683 \times 10^{-3}$	$-4.435 \times 10^{-3}$	$5.460 \times 10^{-4}$
0.9600	0.1467	$2.271 \times 10^{-2}$	$6.650 \times 10^{-3}$	$-4.405 \times 10^{-3}$	$5.389 \times 10^{-4}$
0.9667	0.1467	$1.952 \times 10^{-2}$	$6.365 \times 10^{-3}$	$-3.979 \times 10^{-3}$	$5.067 \times 10^{-4}$
0.9733	0.1467	$1.892 \times 10^{-2}$	$6.497 \times 10^{-3}$	$-3.971 \times 10^{-3}$	$4.922 \times 10^{-4}$
0.9800	0.1467	$1.723 \times 10^{-2}$	$6.447 \times 10^{-3}$	$-3.822 \times 10^{-3}$	$4.695 \times 10^{-4}$
0.9867	0.1467	$1.625 \times 10^{-2}$	$6.484 \times 10^{-3}$	$-3.735 \times 10^{-3}$	$4.431 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.1467	$1.498 \times 10^{-2}$	$6.238 \times 10^{-3}$	$-3.511 \times 10^{-3}$	$4.263 \times 10^{-4}$
1.0000	0.1467	$1.415 \times 10^{-2}$	$6.220 \times 10^{-3}$	$-3.231 \times 10^{-3}$	$4.374 \times 10^{-4}$
0.4667	0.1533	$3.307 \times 10^{-2}$	$1.033 \times 10^{-2}$	$3.479 \times 10^{-4}$	$4.527 \times 10^{-3}$
0.4733	0.1533	$3.371 \times 10^{-2}$	$1.009 \times 10^{-2}$	$4.195 \times 10^{-4}$	$4.504 \times 10^{-3}$
0.4800	0.1533	$3.507 \times 10^{-2}$	$9.452 \times 10^{-3}$	$6.002 \times 10^{-4}$	$4.507 \times 10^{-3}$
0.4867	0.1533	$3.617 \times 10^{-2}$	$8.995 \times 10^{-3}$	$6.636 \times 10^{-4}$	$4.530 \times 10^{-3}$
0.4933	0.1533	$3.839 \times 10^{-2}$	$8.356 \times 10^{-3}$	$9.635 \times 10^{-4}$	$4.560 \times 10^{-3}$
0.5000	0.1533	$4.002 \times 10^{-2}$	$7.859 \times 10^{-3}$	$1.111 \times 10^{-3}$	$4.557 \times 10^{-3}$
0.5067	0.1533	$4.301 \times 10^{-2}$	$6.672 \times 10^{-3}$	$1.085 \times 10^{-3}$	$4.383 \times 10^{-3}$
0.5133	0.1533	$4.480 \times 10^{-2}$	$5.986 \times 10^{-3}$	$1.104 \times 10^{-3}$	$4.248 \times 10^{-3}$
0.5200	0.1533	$4.766 \times 10^{-2}$	$4.458 \times 10^{-3}$	$1.207 \times 10^{-3}$	$3.976 \times 10^{-3}$
0.5267	0.1533	$4.938 \times 10^{-2}$	$3.792 \times 10^{-3}$	$1.311 \times 10^{-3}$	$3.919 \times 10^{-3}$
0.5333	0.1533	$5.244 \times 10^{-2}$	$2.841 \times 10^{-3}$	$1.601 \times 10^{-3}$	$3.816 \times 10^{-3}$
0.5400	0.1533	$5.425 \times 10^{-2}$	$2.462 \times 10^{-3}$	$1.776 \times 10^{-3}$	$3.788 \times 10^{-3}$
0.5467	0.1533	$5.720 \times 10^{-2}$	$1.713 \times 10^{-3}$	$1.951 \times 10^{-3}$	$3.678 \times 10^{-3}$
0.5533	0.1533	$5.903 \times 10^{-2}$	$1.291 \times 10^{-3}$	$2.038 \times 10^{-3}$	$3.567 \times 10^{-3}$
0.5600	0.1533	$6.223 \times 10^{-2}$	$5.140 \times 10^{-4}$	$2.194 \times 10^{-3}$	$3.361 \times 10^{-3}$
0.5667	0.1533	$6.390 \times 10^{-2}$	$8.622 \times 10^{-5}$	$2.330 \times 10^{-3}$	$3.224 \times 10^{-3}$
0.5733	0.1533	$6.667 \times 10^{-2}$	$-4.886 \times 10^{-4}$	$2.431 \times 10^{-3}$	$3.037 \times 10^{-3}$
0.5800	0.1533	$6.811 \times 10^{-2}$	$-6.924 \times 10^{-4}$	$2.506 \times 10^{-3}$	$2.952 \times 10^{-3}$
0.5867	0.1533	$7.080 \times 10^{-2}$	$-1.041 \times 10^{-3}$	$2.537 \times 10^{-3}$	$2.845 \times 10^{-3}$
0.5933	0.1533	$7.205 \times 10^{-2}$	$-1.192 \times 10^{-3}$	$2.646 \times 10^{-3}$	$2.764 \times 10^{-3}$
0.6000	0.1533	$7.441 \times 10^{-2}$	$-1.455 \times 10^{-3}$	$2.754 \times 10^{-3}$	$2.672 \times 10^{-3}$
0.6067	0.1533	$7.552 \times 10^{-2}$	$-1.481 \times 10^{-3}$	$2.911 \times 10^{-3}$	$2.625 \times 10^{-3}$
0.6133	0.1533	$7.754 \times 10^{-2}$	$-1.621 \times 10^{-3}$	$3.068 \times 10^{-3}$	$2.553 \times 10^{-3}$
0.6200	0.1533	$7.816 \times 10^{-2}$	$-1.644 \times 10^{-3}$	$3.193 \times 10^{-3}$	$2.529 \times 10^{-3}$
0.6267	0.1533	$7.955 \times 10^{-2}$	$-1.853 \times 10^{-3}$	$3.364 \times 10^{-3}$	$2.484 \times 10^{-3}$
0.6333	0.1533	$8.008 \times 10^{-2}$	$-1.974 \times 10^{-3}$	$3.457 \times 10^{-3}$	$2.487 \times 10^{-3}$
0.6400	0.1533	$8.118 \times 10^{-2}$	$-2.259 \times 10^{-3}$	$3.625 \times 10^{-3}$	$2.557 \times 10^{-3}$
0.6467	0.1533	$8.146 \times 10^{-2}$	$-2.344 \times 10^{-3}$	$3.985 \times 10^{-3}$	$2.681 \times 10^{-3}$
0.6533	0.1533	$8.196 \times 10^{-2}$	$-2.593 \times 10^{-3}$	$4.334 \times 10^{-3}$	$2.802 \times 10^{-3}$
0.6600	0.1533	$8.236 \times 10^{-2}$	$-2.915 \times 10^{-3}$	$4.847 \times 10^{-3}$	$2.974 \times 10^{-3}$
0.6667	0.1533	$8.280 \times 10^{-2}$	$-3.184 \times 10^{-3}$	$5.115 \times 10^{-3}$	$3.077 \times 10^{-3}$
0.6733	0.1533	$8.352 \times 10^{-2}$	$-4.041 \times 10^{-3}$	$5.988 \times 10^{-3}$	$3.349 \times 10^{-3}$
0.6800	0.1533	$8.380 \times 10^{-2}$	$-4.331 \times 10^{-3}$	$6.309 \times 10^{-3}$	$3.468 \times 10^{-3}$
0.6867	0.1533	$8.478 \times 10^{-2}$	$-5.038 \times 10^{-3}$	$7.267 \times 10^{-3}$	$3.846 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.1533	$8.596 \times 10^{-2}$	$-5.687 \times 10^{-3}$	$8.054 \times 10^{-3}$	$4.129 \times 10^{-3}$
0.7000	0.1533	$8.991 \times 10^{-2}$	$-6.895 \times 10^{-3}$	$9.790 \times 10^{-3}$	$4.710 \times 10^{-3}$
0.7067	0.1533	$9.196 \times 10^{-2}$	$-7.125 \times 10^{-3}$	$1.075 \times 10^{-2}$	$4.960 \times 10^{-3}$
0.7133	0.1533	$9.539 \times 10^{-2}$	$-7.689 \times 10^{-3}$	$1.198 \times 10^{-2}$	$5.358 \times 10^{-3}$
0.7200	0.1533	$1.035 \times 10^{-1}$	$-8.047 \times 10^{-3}$	$1.395 \times 10^{-2}$	$6.203 \times 10^{-3}$
0.7267	0.1533	$1.087 \times 10^{-1}$	$-7.423 \times 10^{-3}$	$1.497 \times 10^{-2}$	$6.671 \times 10^{-3}$
0.7333	0.1533	$1.139 \times 10^{-1}$	$-7.086 \times 10^{-3}$	$1.585 \times 10^{-2}$	$7.121 \times 10^{-3}$
0.7400	0.1533	$1.236 \times 10^{-1}$	$-5.998 \times 10^{-3}$	$1.722 \times 10^{-2}$	$7.724 \times 10^{-3}$
0.7467	0.1533	$1.341 \times 10^{-1}$	$-3.643 \times 10^{-3}$	$1.775 \times 10^{-2}$	$8.397 \times 10^{-3}$
0.7533	0.1533	$1.403 \times 10^{-1}$	$-9.478 \times 10^{-4}$	$1.819 \times 10^{-2}$	$8.780 \times 10^{-3}$
0.7600	0.1533	$1.452 \times 10^{-1}$	$1.493 \times 10^{-3}$	$1.806 \times 10^{-2}$	$9.024 \times 10^{-3}$
0.7667	0.1533	$1.504 \times 10^{-1}$	$4.829 \times 10^{-3}$	$1.701 \times 10^{-2}$	$9.147 \times 10^{-3}$
0.7733	0.1533	$1.530 \times 10^{-1}$	$8.631 \times 10^{-3}$	$1.505 \times 10^{-2}$	$8.890 \times 10^{-3}$
0.7800	0.1533	$1.520 \times 10^{-1}$	$1.163 \times 10^{-2}$	$1.293 \times 10^{-2}$	$8.518 \times 10^{-3}$
0.7867	0.1533	$1.499 \times 10^{-1}$	$1.398 \times 10^{-2}$	$1.098 \times 10^{-2}$	$8.186 \times 10^{-3}$
0.7933	0.1533	$1.458 \times 10^{-1}$	$1.686 \times 10^{-2}$	$7.952 \times 10^{-3}$	$7.626 \times 10^{-3}$
0.8000	0.1533	$1.381 \times 10^{-1}$	$1.883 \times 10^{-2}$	$4.807 \times 10^{-3}$	$6.848 \times 10^{-3}$
0.8067	0.1533	$1.298 \times 10^{-1}$	$1.930 \times 10^{-2}$	$2.659 \times 10^{-3}$	$6.039 \times 10^{-3}$
0.8133	0.1533	$1.216 \times 10^{-1}$	$1.966 \times 10^{-2}$	$6.300 \times 10^{-4}$	$5.333 \times 10^{-3}$
0.8200	0.1533	$1.124 \times 10^{-1}$	$1.970 \times 10^{-2}$	$-1.243 \times 10^{-3}$	$4.695 \times 10^{-3}$
0.8267	0.1533	$1.003 \times 10^{-1}$	$1.866 \times 10^{-2}$	$-3.161 \times 10^{-3}$	$3.900 \times 10^{-3}$
0.8333	0.1533	$9.189 \times 10^{-2}$	$1.804 \times 10^{-2}$	$-3.818 \times 10^{-3}$	$3.433 \times 10^{-3}$
0.8400	0.1533	$8.580 \times 10^{-2}$	$1.753 \times 10^{-2}$	$-4.325 \times 10^{-3}$	$3.105 \times 10^{-3}$
0.8467	0.1533	$7.758 \times 10^{-2}$	$1.671 \times 10^{-2}$	$-4.954 \times 10^{-3}$	$2.728 \times 10^{-3}$
0.8533	0.1533	$7.112 \times 10^{-2}$	$1.592 \times 10^{-2}$	$-5.292 \times 10^{-3}$	$2.450 \times 10^{-3}$
0.8600	0.1533	$6.726 \times 10^{-2}$	$1.555 \times 10^{-2}$	$-5.398 \times 10^{-3}$	$2.279 \times 10^{-3}$
0.8667	0.1533	$6.012 \times 10^{-2}$	$1.458 \times 10^{-2}$	$-5.634 \times 10^{-3}$	$1.999 \times 10^{-3}$
0.8733	0.1533	$5.572 \times 10^{-2}$	$1.390 \times 10^{-2}$	$-5.517 \times 10^{-3}$	$1.787 \times 10^{-3}$
0.8800	0.1533	$5.044 \times 10^{-2}$	$1.295 \times 10^{-2}$	$-5.502 \times 10^{-3}$	$1.577 \times 10^{-3}$
0.8867	0.1533	$4.684 \times 10^{-2}$	$1.233 \times 10^{-2}$	$-5.532 \times 10^{-3}$	$1.474 \times 10^{-3}$
0.8933	0.1533	$4.364 \times 10^{-2}$	$1.145 \times 10^{-2}$	$-5.444 \times 10^{-3}$	$1.367 \times 10^{-3}$
0.9000	0.1533	$4.013 \times 10^{-2}$	$1.075 \times 10^{-2}$	$-5.403 \times 10^{-3}$	$1.199 \times 10^{-3}$
0.9067	0.1533	$3.850 \times 10^{-2}$	$1.047 \times 10^{-2}$	$-5.464 \times 10^{-3}$	$1.117 \times 10^{-3}$
0.9133	0.1533	$3.649 \times 10^{-2}$	$1.006 \times 10^{-2}$	$-5.432 \times 10^{-3}$	$1.036 \times 10^{-3}$
0.9200	0.1533	$3.388 \times 10^{-2}$	$9.345 \times 10^{-3}$	$-5.290 \times 10^{-3}$	$9.536 \times 10^{-4}$
0.9267	0.1533	$3.148 \times 10^{-2}$	$8.638 \times 10^{-3}$	$-4.925 \times 10^{-3}$	$8.129 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.1533	$2.962 \times 10^{-2}$	$7.987 \times 10^{-3}$	$-4.869 \times 10^{-3}$	$7.389 \times 10^{-4}$
0.9400	0.1533	$2.888 \times 10^{-2}$	$7.781 \times 10^{-3}$	$-4.861 \times 10^{-3}$	$7.112 \times 10^{-4}$
0.9467	0.1533	$2.617 \times 10^{-2}$	$7.001 \times 10^{-3}$	$-4.743 \times 10^{-3}$	$6.123 \times 10^{-4}$
0.9533	0.1533	$2.620 \times 10^{-2}$	$7.172 \times 10^{-3}$	$-4.790 \times 10^{-3}$	$6.278 \times 10^{-4}$
0.9600	0.1533	$2.427 \times 10^{-2}$	$6.889 \times 10^{-3}$	$-4.579 \times 10^{-3}$	$5.820 \times 10^{-4}$
0.9667	0.1533	$2.353 \times 10^{-2}$	$6.857 \times 10^{-3}$	$-4.497 \times 10^{-3}$	$5.682 \times 10^{-4}$
0.9733	0.1533	$2.031 \times 10^{-2}$	$6.745 \times 10^{-3}$	$-4.134 \times 10^{-3}$	$4.994 \times 10^{-4}$
0.9800	0.1533	$1.856 \times 10^{-2}$	$6.774 \times 10^{-3}$	$-4.031 \times 10^{-3}$	$4.747 \times 10^{-4}$
0.9867	0.1533	$1.726 \times 10^{-2}$	$6.775 \times 10^{-3}$	$-3.922 \times 10^{-3}$	$4.575 \times 10^{-4}$
0.9933	0.1533	$1.628 \times 10^{-2}$	$6.712 \times 10^{-3}$	$-3.726 \times 10^{-3}$	$4.542 \times 10^{-4}$
1.0000	0.1533	$1.558 \times 10^{-2}$	$6.656 \times 10^{-3}$	$-3.620 \times 10^{-3}$	$4.555 \times 10^{-4}$
0.4667	0.1600	$3.320 \times 10^{-2}$	$1.031 \times 10^{-2}$	$3.719 \times 10^{-4}$	$4.512 \times 10^{-3}$
0.4733	0.1600	$3.340 \times 10^{-2}$	$1.025 \times 10^{-2}$	$3.544 \times 10^{-4}$	$4.503 \times 10^{-3}$
0.4800	0.1600	$3.526 \times 10^{-2}$	$9.309 \times 10^{-3}$	$5.363 \times 10^{-4}$	$4.526 \times 10^{-3}$
0.4867	0.1600	$3.565 \times 10^{-2}$	$9.125 \times 10^{-3}$	$5.732 \times 10^{-4}$	$4.527 \times 10^{-3}$
0.4933	0.1600	$3.865 \times 10^{-2}$	$8.364 \times 10^{-3}$	$1.056 \times 10^{-3}$	$4.605 \times 10^{-3}$
0.5000	0.1600	$3.930 \times 10^{-2}$	$8.205 \times 10^{-3}$	$1.156 \times 10^{-3}$	$4.615 \times 10^{-3}$
0.5067	0.1600	$4.327 \times 10^{-2}$	$6.747 \times 10^{-3}$	$1.091 \times 10^{-3}$	$4.392 \times 10^{-3}$
0.5133	0.1600	$4.414 \times 10^{-2}$	$6.439 \times 10^{-3}$	$1.076 \times 10^{-3}$	$4.339 \times 10^{-3}$
0.5200	0.1600	$4.784 \times 10^{-2}$	$4.480 \times 10^{-3}$	$1.217 \times 10^{-3}$	$4.033 \times 10^{-3}$
0.5267	0.1600	$4.864 \times 10^{-2}$	$4.049 \times 10^{-3}$	$1.232 \times 10^{-3}$	$3.956 \times 10^{-3}$
0.5333	0.1600	$5.267 \times 10^{-2}$	$2.913 \times 10^{-3}$	$1.677 \times 10^{-3}$	$3.840 \times 10^{-3}$
0.5400	0.1600	$5.357 \times 10^{-2}$	$2.666 \times 10^{-3}$	$1.749 \times 10^{-3}$	$3.814 \times 10^{-3}$
0.5467	0.1600	$5.735 \times 10^{-2}$	$1.690 \times 10^{-3}$	$1.978 \times 10^{-3}$	$3.648 \times 10^{-3}$
0.5533	0.1600	$5.820 \times 10^{-2}$	$1.490 \times 10^{-3}$	$2.016 \times 10^{-3}$	$3.612 \times 10^{-3}$
0.5600	0.1600	$6.231 \times 10^{-2}$	$4.474 \times 10^{-4}$	$2.282 \times 10^{-3}$	$3.324 \times 10^{-3}$
0.5667	0.1600	$6.320 \times 10^{-2}$	$2.328 \times 10^{-4}$	$2.334 \times 10^{-3}$	$3.267 \times 10^{-3}$
0.5733	0.1600	$6.661 \times 10^{-2}$	$-4.363 \times 10^{-4}$	$2.517 \times 10^{-3}$	$3.014 \times 10^{-3}$
0.5800	0.1600	$6.737 \times 10^{-2}$	$-5.887 \times 10^{-4}$	$2.535 \times 10^{-3}$	$2.968 \times 10^{-3}$
0.5867	0.1600	$7.065 \times 10^{-2}$	$-1.005 \times 10^{-3}$	$2.654 \times 10^{-3}$	$2.812 \times 10^{-3}$
0.5933	0.1600	$7.138 \times 10^{-2}$	$-1.099 \times 10^{-3}$	$2.656 \times 10^{-3}$	$2.780 \times 10^{-3}$
0.6000	0.1600	$7.427 \times 10^{-2}$	$-1.351 \times 10^{-3}$	$2.888 \times 10^{-3}$	$2.670 \times 10^{-3}$
0.6067	0.1600	$7.492 \times 10^{-2}$	$-1.415 \times 10^{-3}$	$2.903 \times 10^{-3}$	$2.644 \times 10^{-3}$
0.6133	0.1600	$7.721 \times 10^{-2}$	$-1.531 \times 10^{-3}$	$3.134 \times 10^{-3}$	$2.560 \times 10^{-3}$
0.6200	0.1600	$7.775 \times 10^{-2}$	$-1.570 \times 10^{-3}$	$3.165 \times 10^{-3}$	$2.539 \times 10^{-3}$
0.6267	0.1600	$7.918 \times 10^{-2}$	$-1.779 \times 10^{-3}$	$3.363 \times 10^{-3}$	$2.470 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.1600	$7.959 \times 10^{-2}$	$-1.846 \times 10^{-3}$	$3.395 \times 10^{-3}$	$2.454 \times 10^{-3}$
0.6400	0.1600	$8.061 \times 10^{-2}$	$-2.016 \times 10^{-3}$	$3.690 \times 10^{-3}$	$2.568 \times 10^{-3}$
0.6467	0.1600	$8.094 \times 10^{-2}$	$-2.052 \times 10^{-3}$	$3.747 \times 10^{-3}$	$2.598 \times 10^{-3}$
0.6533	0.1600	$8.133 \times 10^{-2}$	$-2.350 \times 10^{-3}$	$4.444 \times 10^{-3}$	$2.787 \times 10^{-3}$
0.6600	0.1600	$8.138 \times 10^{-2}$	$-2.413 \times 10^{-3}$	$4.668 \times 10^{-3}$	$2.847 \times 10^{-3}$
0.6667	0.1600	$8.209 \times 10^{-2}$	$-2.954 \times 10^{-3}$	$5.265 \times 10^{-3}$	$3.052 \times 10^{-3}$
0.6733	0.1600	$8.226 \times 10^{-2}$	$-3.133 \times 10^{-3}$	$5.579 \times 10^{-3}$	$3.148 \times 10^{-3}$
0.6800	0.1600	$8.324 \times 10^{-2}$	$-4.087 \times 10^{-3}$	$6.452 \times 10^{-3}$	$3.517 \times 10^{-3}$
0.6867	0.1600	$8.350 \times 10^{-2}$	$-4.322 \times 10^{-3}$	$6.744 \times 10^{-3}$	$3.628 \times 10^{-3}$
0.6933	0.1600	$8.502 \times 10^{-2}$	$-5.370 \times 10^{-3}$	$8.151 \times 10^{-3}$	$4.119 \times 10^{-3}$
0.7000	0.1600	$8.700 \times 10^{-2}$	$-5.873 \times 10^{-3}$	$9.178 \times 10^{-3}$	$4.372 \times 10^{-3}$
0.7067	0.1600	$8.861 \times 10^{-2}$	$-6.323 \times 10^{-3}$	$9.987 \times 10^{-3}$	$4.575 \times 10^{-3}$
0.7133	0.1600	$9.427 \times 10^{-2}$	$-7.284 \times 10^{-3}$	$1.208 \times 10^{-2}$	$5.300 \times 10^{-3}$
0.7200	0.1600	$9.678 \times 10^{-2}$	$-7.144 \times 10^{-3}$	$1.282 \times 10^{-2}$	$5.558 \times 10^{-3}$
0.7267	0.1600	$1.015 \times 10^{-1}$	$-7.055 \times 10^{-3}$	$1.420 \times 10^{-2}$	$6.038 \times 10^{-3}$
0.7333	0.1600	$1.100 \times 10^{-1}$	$-6.483 \times 10^{-3}$	$1.576 \times 10^{-2}$	$6.854 \times 10^{-3}$
0.7400	0.1600	$1.169 \times 10^{-1}$	$-5.727 \times 10^{-3}$	$1.666 \times 10^{-2}$	$7.298 \times 10^{-3}$
0.7467	0.1600	$1.213 \times 10^{-1}$	$-5.252 \times 10^{-3}$	$1.723 \times 10^{-2}$	$7.591 \times 10^{-3}$
0.7533	0.1600	$1.316 \times 10^{-1}$	$-3.062 \times 10^{-3}$	$1.827 \times 10^{-2}$	$8.201 \times 10^{-3}$
0.7600	0.1600	$1.400 \times 10^{-1}$	$4.022 \times 10^{-4}$	$1.849 \times 10^{-2}$	$8.709 \times 10^{-3}$
0.7667	0.1600	$1.471 \times 10^{-1}$	$4.021 \times 10^{-3}$	$1.752 \times 10^{-2}$	$8.959 \times 10^{-3}$
0.7733	0.1600	$1.484 \times 10^{-1}$	$6.206 \times 10^{-3}$	$1.657 \times 10^{-2}$	$8.756 \times 10^{-3}$
0.7800	0.1600	$1.495 \times 10^{-1}$	$8.900 \times 10^{-3}$	$1.532 \times 10^{-2}$	$8.665 \times 10^{-3}$
0.7867	0.1600	$1.493 \times 10^{-1}$	$1.209 \times 10^{-2}$	$1.274 \times 10^{-2}$	$8.312 \times 10^{-3}$
0.7933	0.1600	$1.464 \times 10^{-1}$	$1.565 \times 10^{-2}$	$9.345 \times 10^{-3}$	$7.717 \times 10^{-3}$
0.8000	0.1600	$1.419 \times 10^{-1}$	$1.700 \times 10^{-2}$	$7.372 \times 10^{-3}$	$7.207 \times 10^{-3}$
0.8067	0.1600	$1.378 \times 10^{-1}$	$1.814 \times 10^{-2}$	$5.716 \times 10^{-3}$	$6.698 \times 10^{-3}$
0.8133	0.1600	$1.271 \times 10^{-1}$	$1.949 \times 10^{-2}$	$1.929 \times 10^{-3}$	$5.678 \times 10^{-3}$
0.8200	0.1600	$1.159 \times 10^{-1}$	$1.965 \times 10^{-2}$	$-6.800 \times 10^{-4}$	$4.833 \times 10^{-3}$
0.8267	0.1600	$1.126 \times 10^{-1}$	$1.951 \times 10^{-2}$	$-9.665 \times 10^{-4}$	$4.610 \times 10^{-3}$
0.8333	0.1600	$1.033 \times 10^{-1}$	$1.896 \times 10^{-2}$	$-2.636 \times 10^{-3}$	$3.981 \times 10^{-3}$
0.8400	0.1600	$9.063 \times 10^{-2}$	$1.802 \times 10^{-2}$	$-3.984 \times 10^{-3}$	$3.265 \times 10^{-3}$
0.8467	0.1600	$8.594 \times 10^{-2}$	$1.754 \times 10^{-2}$	$-4.566 \times 10^{-3}$	$3.071 \times 10^{-3}$
0.8533	0.1600	$7.904 \times 10^{-2}$	$1.693 \times 10^{-2}$	$-5.046 \times 10^{-3}$	$2.744 \times 10^{-3}$
0.8600	0.1600	$7.287 \times 10^{-2}$	$1.626 \times 10^{-2}$	$-5.187 \times 10^{-3}$	$2.485 \times 10^{-3}$
0.8667	0.1600	$6.713 \times 10^{-2}$	$1.568 \times 10^{-2}$	$-5.312 \times 10^{-3}$	$2.264 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.1600	$6.028 \times 10^{-2}$	$1.453 \times 10^{-2}$	$-5.680 \times 10^{-3}$	$1.921 \times 10^{-3}$
0.8800	0.1600	$5.657 \times 10^{-2}$	$1.384 \times 10^{-2}$	$-5.718 \times 10^{-3}$	$1.773 \times 10^{-3}$
0.8867	0.1600	$5.405 \times 10^{-2}$	$1.314 \times 10^{-2}$	$-5.962 \times 10^{-3}$	$1.633 \times 10^{-3}$
0.8933	0.1600	$4.723 \times 10^{-2}$	$1.161 \times 10^{-2}$	$-5.747 \times 10^{-3}$	$1.360 \times 10^{-3}$
0.9000	0.1600	$4.623 \times 10^{-2}$	$1.142 \times 10^{-2}$	$-5.740 \times 10^{-3}$	$1.317 \times 10^{-3}$
0.9067	0.1600	$4.224 \times 10^{-2}$	$1.098 \times 10^{-2}$	$-5.674 \times 10^{-3}$	$1.222 \times 10^{-3}$
0.9133	0.1600	$3.891 \times 10^{-2}$	$1.050 \times 10^{-2}$	$-5.591 \times 10^{-3}$	$1.060 \times 10^{-3}$
0.9200	0.1600	$3.625 \times 10^{-2}$	$9.680 \times 10^{-3}$	$-5.610 \times 10^{-3}$	$9.667 \times 10^{-4}$
0.9267	0.1600	$3.553 \times 10^{-2}$	$9.484 \times 10^{-3}$	$-5.544 \times 10^{-3}$	$9.443 \times 10^{-4}$
0.9333	0.1600	$3.403 \times 10^{-2}$	$9.112 \times 10^{-3}$	$-5.459 \times 10^{-3}$	$8.925 \times 10^{-4}$
0.9400	0.1600	$3.107 \times 10^{-2}$	$8.306 \times 10^{-3}$	$-5.089 \times 10^{-3}$	$7.540 \times 10^{-4}$
0.9467	0.1600	$2.956 \times 10^{-2}$	$7.914 \times 10^{-3}$	$-5.078 \times 10^{-3}$	$7.171 \times 10^{-4}$
0.9533	0.1600	$2.777 \times 10^{-2}$	$7.424 \times 10^{-3}$	$-4.979 \times 10^{-3}$	$6.684 \times 10^{-4}$
0.9600	0.1600	$2.600 \times 10^{-2}$	$7.294 \times 10^{-3}$	$-4.804 \times 10^{-3}$	$6.309 \times 10^{-4}$
0.9667	0.1600	$2.509 \times 10^{-2}$	$7.283 \times 10^{-3}$	$-4.757 \times 10^{-3}$	$5.994 \times 10^{-4}$
0.9733	0.1600	$2.326 \times 10^{-2}$	$7.159 \times 10^{-3}$	$-4.570 \times 10^{-3}$	$5.555 \times 10^{-4}$
0.9800	0.1600	$2.133 \times 10^{-2}$	$6.997 \times 10^{-3}$	$-4.458 \times 10^{-3}$	$4.932 \times 10^{-4}$
0.9867	0.1600	$1.887 \times 10^{-2}$	$7.001 \times 10^{-3}$	$-4.112 \times 10^{-3}$	$4.639 \times 10^{-4}$
0.9933	0.1600	$1.817 \times 10^{-2}$	$7.019 \times 10^{-3}$	$-4.016 \times 10^{-3}$	$4.512 \times 10^{-4}$
1.0000	0.1600	$1.646 \times 10^{-2}$	$6.866 \times 10^{-3}$	$-3.741 \times 10^{-3}$	$4.647 \times 10^{-4}$
0.4667	0.1667	$3.234 \times 10^{-2}$	$1.046 \times 10^{-2}$	$3.605 \times 10^{-4}$	$4.515 \times 10^{-3}$
0.4733	0.1667	$3.363 \times 10^{-2}$	$9.973 \times 10^{-3}$	$3.336 \times 10^{-4}$	$4.548 \times 10^{-3}$
0.4800	0.1667	$3.403 \times 10^{-2}$	$9.776 \times 10^{-3}$	$3.323 \times 10^{-4}$	$4.567 \times 10^{-3}$
0.4867	0.1667	$3.593 \times 10^{-2}$	$9.106 \times 10^{-3}$	$6.810 \times 10^{-4}$	$4.614 \times 10^{-3}$
0.4933	0.1667	$3.652 \times 10^{-2}$	$8.921 \times 10^{-3}$	$7.925 \times 10^{-4}$	$4.648 \times 10^{-3}$
0.5000	0.1667	$3.948 \times 10^{-2}$	$8.101 \times 10^{-3}$	$1.112 \times 10^{-3}$	$4.622 \times 10^{-3}$
0.5067	0.1667	$4.029 \times 10^{-2}$	$7.857 \times 10^{-3}$	$1.183 \times 10^{-3}$	$4.614 \times 10^{-3}$
0.5133	0.1667	$4.428 \times 10^{-2}$	$6.433 \times 10^{-3}$	$1.173 \times 10^{-3}$	$4.445 \times 10^{-3}$
0.5200	0.1667	$4.528 \times 10^{-2}$	$6.062 \times 10^{-3}$	$1.206 \times 10^{-3}$	$4.423 \times 10^{-3}$
0.5267	0.1667	$4.871 \times 10^{-2}$	$4.164 \times 10^{-3}$	$1.493 \times 10^{-3}$	$4.002 \times 10^{-3}$
0.5333	0.1667	$4.962 \times 10^{-2}$	$3.729 \times 10^{-3}$	$1.621 \times 10^{-3}$	$3.921 \times 10^{-3}$
0.5400	0.1667	$5.345 \times 10^{-2}$	$2.583 \times 10^{-3}$	$1.850 \times 10^{-3}$	$3.790 \times 10^{-3}$
0.5467	0.1667	$5.443 \times 10^{-2}$	$2.280 \times 10^{-3}$	$1.933 \times 10^{-3}$	$3.755 \times 10^{-3}$
0.5533	0.1667	$5.847 \times 10^{-2}$	$1.289 \times 10^{-3}$	$2.102 \times 10^{-3}$	$3.546 \times 10^{-3}$
0.5600	0.1667	$5.956 \times 10^{-2}$	$9.988 \times 10^{-4}$	$2.165 \times 10^{-3}$	$3.477 \times 10^{-3}$
0.5667	0.1667	$6.320 \times 10^{-2}$	$3.011 \times 10^{-4}$	$2.535 \times 10^{-3}$	$3.182 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.1667	$6.414 \times 10^{-2}$	$1.361 \times 10^{-4}$	$2.670 \times 10^{-3}$	$3.091 \times 10^{-3}$
0.5800	0.1667	$6.724 \times 10^{-2}$	$-5.464 \times 10^{-4}$	$2.742 \times 10^{-3}$	$2.917 \times 10^{-3}$
0.5867	0.1667	$6.804 \times 10^{-2}$	$-6.984 \times 10^{-4}$	$2.821 \times 10^{-3}$	$2.861 \times 10^{-3}$
0.5933	0.1667	$7.136 \times 10^{-2}$	$-9.975 \times 10^{-4}$	$3.011 \times 10^{-3}$	$2.786 \times 10^{-3}$
0.6000	0.1667	$7.221 \times 10^{-2}$	$-1.044 \times 10^{-3}$	$3.137 \times 10^{-3}$	$2.767 \times 10^{-3}$
0.6067	0.1667	$7.466 \times 10^{-2}$	$-1.282 \times 10^{-3}$	$3.120 \times 10^{-3}$	$2.657 \times 10^{-3}$
0.6133	0.1667	$7.524 \times 10^{-2}$	$-1.311 \times 10^{-3}$	$3.168 \times 10^{-3}$	$2.632 \times 10^{-3}$
0.6200	0.1667	$7.726 \times 10^{-2}$	$-1.449 \times 10^{-3}$	$3.265 \times 10^{-3}$	$2.535 \times 10^{-3}$
0.6267	0.1667	$7.768 \times 10^{-2}$	$-1.464 \times 10^{-3}$	$3.318 \times 10^{-3}$	$2.511 \times 10^{-3}$
0.6333	0.1667	$7.895 \times 10^{-2}$	$-1.730 \times 10^{-3}$	$3.579 \times 10^{-3}$	$2.481 \times 10^{-3}$
0.6400	0.1667	$7.916 \times 10^{-2}$	$-1.776 \times 10^{-3}$	$3.714 \times 10^{-3}$	$2.487 \times 10^{-3}$
0.6467	0.1667	$8.049 \times 10^{-2}$	$-1.963 \times 10^{-3}$	$3.949 \times 10^{-3}$	$2.596 \times 10^{-3}$
0.6533	0.1667	$8.060 \times 10^{-2}$	$-1.990 \times 10^{-3}$	$4.225 \times 10^{-3}$	$2.648 \times 10^{-3}$
0.6600	0.1667	$8.118 \times 10^{-2}$	$-2.343 \times 10^{-3}$	$4.676 \times 10^{-3}$	$2.817 \times 10^{-3}$
0.6667	0.1667	$8.134 \times 10^{-2}$	$-2.566 \times 10^{-3}$	$5.103 \times 10^{-3}$	$2.917 \times 10^{-3}$
0.6733	0.1667	$8.214 \times 10^{-2}$	$-3.100 \times 10^{-3}$	$5.595 \times 10^{-3}$	$3.143 \times 10^{-3}$
0.6800	0.1667	$8.237 \times 10^{-2}$	$-3.611 \times 10^{-3}$	$6.497 \times 10^{-3}$	$3.460 \times 10^{-3}$
0.6867	0.1667	$8.236 \times 10^{-2}$	$-3.778 \times 10^{-3}$	$6.939 \times 10^{-3}$	$3.610 \times 10^{-3}$
0.6933	0.1667	$8.353 \times 10^{-2}$	$-4.505 \times 10^{-3}$	$7.819 \times 10^{-3}$	$3.888 \times 10^{-3}$
0.7000	0.1667	$8.362 \times 10^{-2}$	$-4.658 \times 10^{-3}$	$8.461 \times 10^{-3}$	$4.019 \times 10^{-3}$
0.7067	0.1667	$8.806 \times 10^{-2}$	$-5.855 \times 10^{-3}$	$1.028 \times 10^{-2}$	$4.598 \times 10^{-3}$
0.7133	0.1667	$8.907 \times 10^{-2}$	$-5.985 \times 10^{-3}$	$1.067 \times 10^{-2}$	$4.726 \times 10^{-3}$
0.7200	0.1667	$9.241 \times 10^{-2}$	$-6.132 \times 10^{-3}$	$1.205 \times 10^{-2}$	$5.150 \times 10^{-3}$
0.7267	0.1667	$9.828 \times 10^{-2}$	$-6.296 \times 10^{-3}$	$1.371 \times 10^{-2}$	$5.766 \times 10^{-3}$
0.7333	0.1667	$1.007 \times 10^{-1}$	$-6.220 \times 10^{-3}$	$1.420 \times 10^{-2}$	$5.989 \times 10^{-3}$
0.7400	0.1667	$1.075 \times 10^{-1}$	$-5.826 \times 10^{-3}$	$1.555 \times 10^{-2}$	$6.606 \times 10^{-3}$
0.7467	0.1667	$1.178 \times 10^{-1}$	$-4.523 \times 10^{-3}$	$1.723 \times 10^{-2}$	$7.306 \times 10^{-3}$
0.7533	0.1667	$1.249 \times 10^{-1}$	$-3.185 \times 10^{-3}$	$1.800 \times 10^{-2}$	$7.805 \times 10^{-3}$
0.7600	0.1667	$1.292 \times 10^{-1}$	$-2.185 \times 10^{-3}$	$1.840 \times 10^{-2}$	$8.088 \times 10^{-3}$
0.7667	0.1667	$1.371 \times 10^{-1}$	$4.402 \times 10^{-4}$	$1.860 \times 10^{-2}$	$8.519 \times 10^{-3}$
0.7733	0.1667	$1.454 \times 10^{-1}$	$4.343 \times 10^{-3}$	$1.772 \times 10^{-2}$	$8.637 \times 10^{-3}$
0.7800	0.1667	$1.452 \times 10^{-1}$	$6.820 \times 10^{-3}$	$1.646 \times 10^{-2}$	$8.438 \times 10^{-3}$
0.7867	0.1667	$1.488 \times 10^{-1}$	$1.118 \times 10^{-2}$	$1.386 \times 10^{-2}$	$8.342 \times 10^{-3}$
0.7933	0.1667	$1.467 \times 10^{-1}$	$1.271 \times 10^{-2}$	$1.227 \times 10^{-2}$	$7.961 \times 10^{-3}$
0.8000	0.1667	$1.450 \times 10^{-1}$	$1.431 \times 10^{-2}$	$1.072 \times 10^{-2}$	$7.600 \times 10^{-3}$
0.8067	0.1667	$1.401 \times 10^{-1}$	$1.742 \times 10^{-2}$	$7.026 \times 10^{-3}$	$6.917 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.1667	$1.324 \times 10^{-1}$	$1.869 \times 10^{-2}$	$4.142 \times 10^{-3}$	$6.096 \times 10^{-3}$
0.8200	0.1667	$1.269 \times 10^{-1}$	$1.931 \times 10^{-2}$	$2.592 \times 10^{-3}$	$5.633 \times 10^{-3}$
0.8267	0.1667	$1.199 \times 10^{-1}$	$1.991 \times 10^{-2}$	$6.761 \times 10^{-4}$	$5.078 \times 10^{-3}$
0.8333	0.1667	$1.130 \times 10^{-1}$	$2.002 \times 10^{-2}$	$-8.589 \times 10^{-4}$	$4.593 \times 10^{-3}$
0.8400	0.1667	$1.016 \times 10^{-1}$	$1.897 \times 10^{-2}$	$-2.861 \times 10^{-3}$	$3.881 \times 10^{-3}$
0.8467	0.1667	$9.144 \times 10^{-2}$	$1.799 \times 10^{-2}$	$-4.146 \times 10^{-3}$	$3.321 \times 10^{-3}$
0.8533	0.1667	$8.866 \times 10^{-2}$	$1.776 \times 10^{-2}$	$-4.288 \times 10^{-3}$	$3.144 \times 10^{-3}$
0.8600	0.1667	$8.038 \times 10^{-2}$	$1.695 \times 10^{-2}$	$-4.758 \times 10^{-3}$	$2.704 \times 10^{-3}$
0.8667	0.1667	$7.318 \times 10^{-2}$	$1.612 \times 10^{-2}$	$-5.171 \times 10^{-3}$	$2.381 \times 10^{-3}$
0.8733	0.1667	$6.929 \times 10^{-2}$	$1.563 \times 10^{-2}$	$-5.381 \times 10^{-3}$	$2.214 \times 10^{-3}$
0.8800	0.1667	$6.606 \times 10^{-2}$	$1.513 \times 10^{-2}$	$-5.563 \times 10^{-3}$	$2.073 \times 10^{-3}$
0.8867	0.1667	$5.737 \times 10^{-2}$	$1.348 \times 10^{-2}$	$-5.853 \times 10^{-3}$	$1.713 \times 10^{-3}$
0.8933	0.1667	$5.548 \times 10^{-2}$	$1.295 \times 10^{-2}$	$-5.801 \times 10^{-3}$	$1.608 \times 10^{-3}$
0.9000	0.1667	$4.920 \times 10^{-2}$	$1.166 \times 10^{-2}$	$-5.848 \times 10^{-3}$	$1.348 \times 10^{-3}$
0.9067	0.1667	$4.621 \times 10^{-2}$	$1.134 \times 10^{-2}$	$-5.833 \times 10^{-3}$	$1.251 \times 10^{-3}$
0.9133	0.1667	$4.428 \times 10^{-2}$	$1.103 \times 10^{-2}$	$-5.792 \times 10^{-3}$	$1.195 \times 10^{-3}$
0.9200	0.1667	$4.202 \times 10^{-2}$	$1.059 \times 10^{-2}$	$-5.746 \times 10^{-3}$	$1.128 \times 10^{-3}$
0.9267	0.1667	$3.944 \times 10^{-2}$	$1.025 \times 10^{-2}$	$-5.766 \times 10^{-3}$	$1.099 \times 10^{-3}$
0.9333	0.1667	$3.640 \times 10^{-2}$	$9.765 \times 10^{-3}$	$-5.581 \times 10^{-3}$	$9.577 \times 10^{-4}$
0.9400	0.1667	$3.562 \times 10^{-2}$	$9.597 \times 10^{-3}$	$-5.544 \times 10^{-3}$	$9.235 \times 10^{-4}$
0.9467	0.1667	$3.346 \times 10^{-2}$	$9.023 \times 10^{-3}$	$-5.608 \times 10^{-3}$	$8.335 \times 10^{-4}$
0.9533	0.1667	$3.040 \times 10^{-2}$	$8.329 \times 10^{-3}$	$-5.335 \times 10^{-3}$	$7.626 \times 10^{-4}$
0.9600	0.1667	$2.984 \times 10^{-2}$	$8.239 \times 10^{-3}$	$-5.306 \times 10^{-3}$	$7.529 \times 10^{-4}$
0.9667	0.1667	$2.598 \times 10^{-2}$	$7.526 \times 10^{-3}$	$-4.900 \times 10^{-3}$	$6.177 \times 10^{-4}$
0.9733	0.1667	$2.547 \times 10^{-2}$	$7.517 \times 10^{-3}$	$-4.857 \times 10^{-3}$	$6.009 \times 10^{-4}$
0.9800	0.1667	$2.203 \times 10^{-2}$	$7.152 \times 10^{-3}$	$-4.529 \times 10^{-3}$	$5.102 \times 10^{-4}$
0.9867	0.1667	$2.102 \times 10^{-2}$	$7.384 \times 10^{-3}$	$-4.350 \times 10^{-3}$	$5.073 \times 10^{-4}$
0.9933	0.1667	$1.895 \times 10^{-2}$	$7.214 \times 10^{-3}$	$-4.093 \times 10^{-3}$	$4.752 \times 10^{-4}$
1.0000	0.1667	$1.838 \times 10^{-2}$	$7.427 \times 10^{-3}$	$-3.990 \times 10^{-3}$	$4.945 \times 10^{-4}$
0.4667	0.1733	$3.229 \times 10^{-2}$	$1.047 \times 10^{-2}$	$3.450 \times 10^{-4}$	$4.516 \times 10^{-3}$
0.4733	0.1733	$3.349 \times 10^{-2}$	$9.999 \times 10^{-3}$	$2.947 \times 10^{-4}$	$4.557 \times 10^{-3}$
0.4800	0.1733	$3.396 \times 10^{-2}$	$9.797 \times 10^{-3}$	$3.215 \times 10^{-4}$	$4.567 \times 10^{-3}$
0.4867	0.1733	$3.565 \times 10^{-2}$	$9.191 \times 10^{-3}$	$6.499 \times 10^{-4}$	$4.609 \times 10^{-3}$
0.4933	0.1733	$3.641 \times 10^{-2}$	$8.955 \times 10^{-3}$	$7.782 \times 10^{-4}$	$4.651 \times 10^{-3}$
0.5000	0.1733	$3.906 \times 10^{-2}$	$8.241 \times 10^{-3}$	$1.058 \times 10^{-3}$	$4.641 \times 10^{-3}$
0.5067	0.1733	$4.018 \times 10^{-2}$	$7.916 \times 10^{-3}$	$1.173 \times 10^{-3}$	$4.628 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.1733	$4.385 \times 10^{-2}$	$6.699 \times 10^{-3}$	$1.159 \times 10^{-3}$	$4.512 \times 10^{-3}$
0.5200	0.1733	$4.515 \times 10^{-2}$	$6.134 \times 10^{-3}$	$1.214 \times 10^{-3}$	$4.434 \times 10^{-3}$
0.5267	0.1733	$4.822 \times 10^{-2}$	$4.401 \times 10^{-3}$	$1.532 \times 10^{-3}$	$4.028 \times 10^{-3}$
0.5333	0.1733	$4.944 \times 10^{-2}$	$3.777 \times 10^{-3}$	$1.628 \times 10^{-3}$	$3.921 \times 10^{-3}$
0.5400	0.1733	$5.280 \times 10^{-2}$	$2.692 \times 10^{-3}$	$1.865 \times 10^{-3}$	$3.777 \times 10^{-3}$
0.5467	0.1733	$5.425 \times 10^{-2}$	$2.306 \times 10^{-3}$	$1.939 \times 10^{-3}$	$3.754 \times 10^{-3}$
0.5533	0.1733	$5.793 \times 10^{-2}$	$1.358 \times 10^{-3}$	$2.135 \times 10^{-3}$	$3.546 \times 10^{-3}$
0.5600	0.1733	$5.939 \times 10^{-2}$	$1.029 \times 10^{-3}$	$2.174 \times 10^{-3}$	$3.479 \times 10^{-3}$
0.5667	0.1733	$6.263 \times 10^{-2}$	$4.155 \times 10^{-4}$	$2.567 \times 10^{-3}$	$3.184 \times 10^{-3}$
0.5733	0.1733	$6.396 \times 10^{-2}$	$1.659 \times 10^{-4}$	$2.679 \times 10^{-3}$	$3.092 \times 10^{-3}$
0.5800	0.1733	$6.665 \times 10^{-2}$	$-4.629 \times 10^{-4}$	$2.775 \times 10^{-3}$	$2.923 \times 10^{-3}$
0.5867	0.1733	$6.787 \times 10^{-2}$	$-6.785 \times 10^{-4}$	$2.841 \times 10^{-3}$	$2.865 \times 10^{-3}$
0.5933	0.1733	$7.080 \times 10^{-2}$	$-9.385 \times 10^{-4}$	$3.104 \times 10^{-3}$	$2.799 \times 10^{-3}$
0.6000	0.1733	$7.206 \times 10^{-2}$	$-1.025 \times 10^{-3}$	$3.164 \times 10^{-3}$	$2.772 \times 10^{-3}$
0.6067	0.1733	$7.417 \times 10^{-2}$	$-1.211 \times 10^{-3}$	$3.206 \times 10^{-3}$	$2.675 \times 10^{-3}$
0.6133	0.1733	$7.509 \times 10^{-2}$	$-1.286 \times 10^{-3}$	$3.183 \times 10^{-3}$	$2.636 \times 10^{-3}$
0.6200	0.1733	$7.676 \times 10^{-2}$	$-1.355 \times 10^{-3}$	$3.299 \times 10^{-3}$	$2.545 \times 10^{-3}$
0.6267	0.1733	$7.754 \times 10^{-2}$	$-1.434 \times 10^{-3}$	$3.327 \times 10^{-3}$	$2.513 \times 10^{-3}$
0.6333	0.1733	$7.848 \times 10^{-2}$	$-1.627 \times 10^{-3}$	$3.638 \times 10^{-3}$	$2.486 \times 10^{-3}$
0.6400	0.1733	$7.897 \times 10^{-2}$	$-1.737 \times 10^{-3}$	$3.722 \times 10^{-3}$	$2.477 \times 10^{-3}$
0.6467	0.1733	$8.001 \times 10^{-2}$	$-1.823 \times 10^{-3}$	$4.082 \times 10^{-3}$	$2.575 \times 10^{-3}$
0.6533	0.1733	$8.044 \times 10^{-2}$	$-1.908 \times 10^{-3}$	$4.180 \times 10^{-3}$	$2.617 \times 10^{-3}$
0.6600	0.1733	$8.064 \times 10^{-2}$	$-2.146 \times 10^{-3}$	$4.777 \times 10^{-3}$	$2.749 \times 10^{-3}$
0.6667	0.1733	$8.079 \times 10^{-2}$	$-2.268 \times 10^{-3}$	$4.955 \times 10^{-3}$	$2.801 \times 10^{-3}$
0.6733	0.1733	$8.116 \times 10^{-2}$	$-2.680 \times 10^{-3}$	$5.566 \times 10^{-3}$	$3.048 \times 10^{-3}$
0.6800	0.1733	$8.125 \times 10^{-2}$	$-2.811 \times 10^{-3}$	$5.804 \times 10^{-3}$	$3.139 \times 10^{-3}$
0.6867	0.1733	$8.196 \times 10^{-2}$	$-3.518 \times 10^{-3}$	$6.844 \times 10^{-3}$	$3.529 \times 10^{-3}$
0.6933	0.1733	$8.217 \times 10^{-2}$	$-3.775 \times 10^{-3}$	$7.497 \times 10^{-3}$	$3.705 \times 10^{-3}$
0.7000	0.1733	$8.351 \times 10^{-2}$	$-4.589 \times 10^{-3}$	$8.439 \times 10^{-3}$	$4.004 \times 10^{-3}$
0.7067	0.1733	$8.576 \times 10^{-2}$	$-5.143 \times 10^{-3}$	$9.683 \times 10^{-3}$	$4.367 \times 10^{-3}$
0.7133	0.1733	$8.548 \times 10^{-2}$	$-5.040 \times 10^{-3}$	$9.899 \times 10^{-3}$	$4.405 \times 10^{-3}$
0.7200	0.1733	$9.049 \times 10^{-2}$	$-5.673 \times 10^{-3}$	$1.170 \times 10^{-2}$	$4.951 \times 10^{-3}$
0.7267	0.1733	$9.222 \times 10^{-2}$	$-5.702 \times 10^{-3}$	$1.232 \times 10^{-2}$	$5.138 \times 10^{-3}$
0.7333	0.1733	$9.698 \times 10^{-2}$	$-5.877 \times 10^{-3}$	$1.378 \times 10^{-2}$	$5.651 \times 10^{-3}$
0.7400	0.1733	$1.042 \times 10^{-1}$	$-5.445 \times 10^{-3}$	$1.518 \times 10^{-2}$	$6.305 \times 10^{-3}$
0.7467	0.1733	$1.073 \times 10^{-1}$	$-4.934 \times 10^{-3}$	$1.586 \times 10^{-2}$	$6.555 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.1733	$1.144 \times 10^{-1}$	$-4.047 \times 10^{-3}$	$1.730 \times 10^{-2}$	$7.138 \times 10^{-3}$
0.7600	0.1733	$1.241 \times 10^{-1}$	$-2.143 \times 10^{-3}$	$1.822 \times 10^{-2}$	$7.767 \times 10^{-3}$
0.7667	0.1733	$1.317 \times 10^{-1}$	$2.852 \times 10^{-4}$	$1.842 \times 10^{-2}$	$8.077 \times 10^{-3}$
0.7733	0.1733	$1.350 \times 10^{-1}$	$1.531 \times 10^{-3}$	$1.847 \times 10^{-2}$	$8.191 \times 10^{-3}$
0.7800	0.1733	$1.424 \times 10^{-1}$	$5.667 \times 10^{-3}$	$1.707 \times 10^{-2}$	$8.292 \times 10^{-3}$
0.7867	0.1733	$1.434 \times 10^{-1}$	$7.692 \times 10^{-3}$	$1.592 \times 10^{-2}$	$8.144 \times 10^{-3}$
0.7933	0.1733	$1.447 \times 10^{-1}$	$1.073 \times 10^{-2}$	$1.385 \times 10^{-2}$	$7.916 \times 10^{-3}$
0.8000	0.1733	$1.455 \times 10^{-1}$	$1.317 \times 10^{-2}$	$1.198 \times 10^{-2}$	$7.719 \times 10^{-3}$
0.8067	0.1733	$1.417 \times 10^{-1}$	$1.543 \times 10^{-2}$	$9.748 \times 10^{-3}$	$7.128 \times 10^{-3}$
0.8133	0.1733	$1.399 \times 10^{-1}$	$1.672 \times 10^{-2}$	$8.291 \times 10^{-3}$	$6.871 \times 10^{-3}$
0.8200	0.1733	$1.338 \times 10^{-1}$	$1.842 \times 10^{-2}$	$5.314 \times 10^{-3}$	$6.236 \times 10^{-3}$
0.8267	0.1733	$1.255 \times 10^{-1}$	$1.941 \times 10^{-2}$	$2.558 \times 10^{-3}$	$5.451 \times 10^{-3}$
0.8333	0.1733	$1.159 \times 10^{-1}$	$1.953 \times 10^{-2}$	$1.148 \times 10^{-4}$	$4.757 \times 10^{-3}$
0.8400	0.1733	$1.125 \times 10^{-1}$	$1.938 \times 10^{-2}$	$-5.384 \times 10^{-4}$	$4.540 \times 10^{-3}$
0.8467	0.1733	$1.036 \times 10^{-1}$	$1.903 \times 10^{-2}$	$-2.377 \times 10^{-3}$	$3.987 \times 10^{-3}$
0.8533	0.1733	$9.348 \times 10^{-2}$	$1.812 \times 10^{-2}$	$-3.733 \times 10^{-3}$	$3.357 \times 10^{-3}$
0.8600	0.1733	$9.103 \times 10^{-2}$	$1.773 \times 10^{-2}$	$-3.830 \times 10^{-3}$	$3.187 \times 10^{-3}$
0.8667	0.1733	$8.011 \times 10^{-2}$	$1.688 \times 10^{-2}$	$-4.752 \times 10^{-3}$	$2.634 \times 10^{-3}$
0.8733	0.1733	$7.786 \times 10^{-2}$	$1.661 \times 10^{-2}$	$-4.888 \times 10^{-3}$	$2.538 \times 10^{-3}$
0.8800	0.1733	$7.026 \times 10^{-2}$	$1.560 \times 10^{-2}$	$-5.336 \times 10^{-3}$	$2.222 \times 10^{-3}$
0.8867	0.1733	$6.142 \times 10^{-2}$	$1.395 \times 10^{-2}$	$-5.674 \times 10^{-3}$	$1.830 \times 10^{-3}$
0.8933	0.1733	$5.992 \times 10^{-2}$	$1.366 \times 10^{-2}$	$-5.733 \times 10^{-3}$	$1.756 \times 10^{-3}$
0.9000	0.1733	$5.582 \times 10^{-2}$	$1.279 \times 10^{-2}$	$-5.860 \times 10^{-3}$	$1.545 \times 10^{-3}$
0.9067	0.1733	$5.413 \times 10^{-2}$	$1.253 \times 10^{-2}$	$-5.870 \times 10^{-3}$	$1.487 \times 10^{-3}$
0.9133	0.1733	$5.058 \times 10^{-2}$	$1.198 \times 10^{-2}$	$-5.958 \times 10^{-3}$	$1.355 \times 10^{-3}$
0.9200	0.1733	$4.646 \times 10^{-2}$	$1.143 \times 10^{-2}$	$-6.026 \times 10^{-3}$	$1.258 \times 10^{-3}$
0.9267	0.1733	$4.328 \times 10^{-2}$	$1.090 \times 10^{-2}$	$-5.912 \times 10^{-3}$	$1.177 \times 10^{-3}$
0.9333	0.1733	$4.181 \times 10^{-2}$	$1.066 \times 10^{-2}$	$-5.857 \times 10^{-3}$	$1.118 \times 10^{-3}$
0.9400	0.1733	$3.890 \times 10^{-2}$	$1.022 \times 10^{-2}$	$-5.954 \times 10^{-3}$	$1.015 \times 10^{-3}$
0.9467	0.1733	$3.609 \times 10^{-2}$	$9.605 \times 10^{-3}$	$-5.795 \times 10^{-3}$	$9.159 \times 10^{-4}$
0.9533	0.1733	$3.551 \times 10^{-2}$	$9.493 \times 10^{-3}$	$-5.795 \times 10^{-3}$	$8.942 \times 10^{-4}$
0.9600	0.1733	$3.220 \times 10^{-2}$	$8.896 \times 10^{-3}$	$-5.594 \times 10^{-3}$	$7.865 \times 10^{-4}$
0.9667	0.1733	$3.208 \times 10^{-2}$	$8.968 \times 10^{-3}$	$-5.631 \times 10^{-3}$	$7.682 \times 10^{-4}$
0.9733	0.1733	$2.776 \times 10^{-2}$	$8.242 \times 10^{-3}$	$-5.156 \times 10^{-3}$	$6.349 \times 10^{-4}$
0.9800	0.1733	$2.741 \times 10^{-2}$	$8.207 \times 10^{-3}$	$-5.117 \times 10^{-3}$	$6.266 \times 10^{-4}$
0.9867	0.1733	$2.213 \times 10^{-2}$	$7.681 \times 10^{-3}$	$-4.454 \times 10^{-3}$	$5.342 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.1733	$2.191 \times 10^{-2}$	$7.696 \times 10^{-3}$	$-4.421 \times 10^{-3}$	$5.338 \times 10^{-4}$
1.0000	0.1733	$1.967 \times 10^{-2}$	$7.747 \times 10^{-3}$	$-4.106 \times 10^{-3}$	$5.272 \times 10^{-4}$
0.4667	0.1800	$3.257 \times 10^{-2}$	$1.042 \times 10^{-2}$	$1.716 \times 10^{-4}$	$4.562 \times 10^{-3}$
0.4733	0.1800	$3.275 \times 10^{-2}$	$1.036 \times 10^{-2}$	$1.784 \times 10^{-4}$	$4.571 \times 10^{-3}$
0.4800	0.1800	$3.400 \times 10^{-2}$	$9.692 \times 10^{-3}$	$3.953 \times 10^{-4}$	$4.494 \times 10^{-3}$
0.4867	0.1800	$3.420 \times 10^{-2}$	$9.583 \times 10^{-3}$	$4.314 \times 10^{-4}$	$4.477 \times 10^{-3}$
0.4933	0.1800	$3.673 \times 10^{-2}$	$8.914 \times 10^{-3}$	$7.893 \times 10^{-4}$	$4.657 \times 10^{-3}$
0.5000	0.1800	$3.716 \times 10^{-2}$	$8.809 \times 10^{-3}$	$8.479 \times 10^{-4}$	$4.687 \times 10^{-3}$
0.5067	0.1800	$4.147 \times 10^{-2}$	$7.861 \times 10^{-3}$	$9.883 \times 10^{-4}$	$4.694 \times 10^{-3}$
0.5133	0.1800	$4.225 \times 10^{-2}$	$7.717 \times 10^{-3}$	$9.946 \times 10^{-4}$	$4.704 \times 10^{-3}$
0.5200	0.1800	$4.560 \times 10^{-2}$	$5.716 \times 10^{-3}$	$1.409 \times 10^{-3}$	$4.208 \times 10^{-3}$
0.5267	0.1800	$4.620 \times 10^{-2}$	$5.359 \times 10^{-3}$	$1.485 \times 10^{-3}$	$4.112 \times 10^{-3}$
0.5333	0.1800	$4.948 \times 10^{-2}$	$3.530 \times 10^{-3}$	$1.738 \times 10^{-3}$	$3.780 \times 10^{-3}$
0.5400	0.1800	$5.002 \times 10^{-2}$	$3.196 \times 10^{-3}$	$1.786 \times 10^{-3}$	$3.712 \times 10^{-3}$
0.5467	0.1800	$5.466 \times 10^{-2}$	$2.021 \times 10^{-3}$	$2.123 \times 10^{-3}$	$3.644 \times 10^{-3}$
0.5533	0.1800	$5.546 \times 10^{-2}$	$1.789 \times 10^{-3}$	$2.190 \times 10^{-3}$	$3.622 \times 10^{-3}$
0.5600	0.1800	$5.958 \times 10^{-2}$	$9.957 \times 10^{-4}$	$2.440 \times 10^{-3}$	$3.335 \times 10^{-3}$
0.5667	0.1800	$6.029 \times 10^{-2}$	$8.495 \times 10^{-4}$	$2.497 \times 10^{-3}$	$3.273 \times 10^{-3}$
0.5733	0.1800	$6.373 \times 10^{-2}$	$2.980 \times 10^{-6}$	$2.634 \times 10^{-3}$	$3.044 \times 10^{-3}$
0.5800	0.1800	$6.429 \times 10^{-2}$	$-1.679 \times 10^{-4}$	$2.649 \times 10^{-3}$	$2.996 \times 10^{-3}$
0.5867	0.1800	$6.789 \times 10^{-2}$	$-7.189 \times 10^{-4}$	$3.077 \times 10^{-3}$	$2.867 \times 10^{-3}$
0.5933	0.1800	$6.850 \times 10^{-2}$	$-8.318 \times 10^{-4}$	$3.172 \times 10^{-3}$	$2.842 \times 10^{-3}$
0.6000	0.1800	$7.189 \times 10^{-2}$	$-1.020 \times 10^{-3}$	$3.344 \times 10^{-3}$	$2.757 \times 10^{-3}$
0.6067	0.1800	$7.247 \times 10^{-2}$	$-1.057 \times 10^{-3}$	$3.395 \times 10^{-3}$	$2.741 \times 10^{-3}$
0.6133	0.1800	$7.474 \times 10^{-2}$	$-1.098 \times 10^{-3}$	$3.307 \times 10^{-3}$	$2.611 \times 10^{-3}$
0.6200	0.1800	$7.511 \times 10^{-2}$	$-1.087 \times 10^{-3}$	$3.306 \times 10^{-3}$	$2.586 \times 10^{-3}$
0.6267	0.1800	$7.695 \times 10^{-2}$	$-1.308 \times 10^{-3}$	$3.547 \times 10^{-3}$	$2.517 \times 10^{-3}$
0.6333	0.1800	$7.722 \times 10^{-2}$	$-1.333 \times 10^{-3}$	$3.605 \times 10^{-3}$	$2.505 \times 10^{-3}$
0.6400	0.1800	$7.871 \times 10^{-2}$	$-1.503 \times 10^{-3}$	$3.941 \times 10^{-3}$	$2.474 \times 10^{-3}$
0.6467	0.1800	$7.895 \times 10^{-2}$	$-1.511 \times 10^{-3}$	$4.020 \times 10^{-3}$	$2.465 \times 10^{-3}$
0.6533	0.1800	$7.981 \times 10^{-2}$	$-1.618 \times 10^{-3}$	$4.292 \times 10^{-3}$	$2.541 \times 10^{-3}$
0.6600	0.1800	$7.987 \times 10^{-2}$	$-1.624 \times 10^{-3}$	$4.335 \times 10^{-3}$	$2.547 \times 10^{-3}$
0.6667	0.1800	$8.027 \times 10^{-2}$	$-2.055 \times 10^{-3}$	$4.880 \times 10^{-3}$	$2.746 \times 10^{-3}$
0.6733	0.1800	$8.081 \times 10^{-2}$	$-2.523 \times 10^{-3}$	$5.508 \times 10^{-3}$	$3.001 \times 10^{-3}$
0.6800	0.1800	$8.115 \times 10^{-2}$	$-2.752 \times 10^{-3}$	$5.767 \times 10^{-3}$	$3.117 \times 10^{-3}$
0.6867	0.1800	$8.116 \times 10^{-2}$	$-3.120 \times 10^{-3}$	$6.889 \times 10^{-3}$	$3.472 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.1800	$8.120 \times 10^{-2}$	$-3.199 \times 10^{-3}$	$7.107 \times 10^{-3}$	$3.547 \times 10^{-3}$
0.7000	0.1800	$8.205 \times 10^{-2}$	$-3.854 \times 10^{-3}$	$8.111 \times 10^{-3}$	$3.830 \times 10^{-3}$
0.7067	0.1800	$8.252 \times 10^{-2}$	$-4.164 \times 10^{-3}$	$8.710 \times 10^{-3}$	$3.999 \times 10^{-3}$
0.7133	0.1800	$8.516 \times 10^{-2}$	$-4.883 \times 10^{-3}$	$9.889 \times 10^{-3}$	$4.375 \times 10^{-3}$
0.7200	0.1800	$8.799 \times 10^{-2}$	$-5.142 \times 10^{-3}$	$1.118 \times 10^{-2}$	$4.709 \times 10^{-3}$
0.7267	0.1800	$9.011 \times 10^{-2}$	$-5.378 \times 10^{-3}$	$1.193 \times 10^{-2}$	$4.938 \times 10^{-3}$
0.7333	0.1800	$9.569 \times 10^{-2}$	$-5.721 \times 10^{-3}$	$1.355 \times 10^{-2}$	$5.532 \times 10^{-3}$
0.7400	0.1800	$9.895 \times 10^{-2}$	$-5.167 \times 10^{-3}$	$1.437 \times 10^{-2}$	$5.857 \times 10^{-3}$
0.7467	0.1800	$1.045 \times 10^{-1}$	$-4.832 \times 10^{-3}$	$1.553 \times 10^{-2}$	$6.334 \times 10^{-3}$
0.7533	0.1800	$1.116 \times 10^{-1}$	$-4.023 \times 10^{-3}$	$1.689 \times 10^{-2}$	$6.909 \times 10^{-3}$
0.7600	0.1800	$1.163 \times 10^{-1}$	$-2.793 \times 10^{-3}$	$1.753 \times 10^{-2}$	$7.224 \times 10^{-3}$
0.7667	0.1800	$1.226 \times 10^{-1}$	$-6.010 \times 10^{-4}$	$1.825 \times 10^{-2}$	$7.529 \times 10^{-3}$
0.7733	0.1800	$1.288 \times 10^{-1}$	$1.143 \times 10^{-3}$	$1.824 \times 10^{-2}$	$7.791 \times 10^{-3}$
0.7800	0.1800	$1.344 \times 10^{-1}$	$3.084 \times 10^{-3}$	$1.818 \times 10^{-2}$	$7.974 \times 10^{-3}$
0.7867	0.1800	$1.383 \times 10^{-1}$	$5.818 \times 10^{-3}$	$1.712 \times 10^{-2}$	$7.992 \times 10^{-3}$
0.7933	0.1800	$1.431 \times 10^{-1}$	$9.299 \times 10^{-3}$	$1.533 \times 10^{-2}$	$7.860 \times 10^{-3}$
0.8000	0.1800	$1.425 \times 10^{-1}$	$1.027 \times 10^{-2}$	$1.455 \times 10^{-2}$	$7.699 \times 10^{-3}$
0.8067	0.1800	$1.435 \times 10^{-1}$	$1.279 \times 10^{-2}$	$1.238 \times 10^{-2}$	$7.441 \times 10^{-3}$
0.8133	0.1800	$1.400 \times 10^{-1}$	$1.559 \times 10^{-2}$	$9.696 \times 10^{-3}$	$6.887 \times 10^{-3}$
0.8200	0.1800	$1.355 \times 10^{-1}$	$1.741 \times 10^{-2}$	$7.365 \times 10^{-3}$	$6.355 \times 10^{-3}$
0.8267	0.1800	$1.328 \times 10^{-1}$	$1.797 \times 10^{-2}$	$6.185 \times 10^{-3}$	$6.093 \times 10^{-3}$
0.8333	0.1800	$1.273 \times 10^{-1}$	$1.895 \times 10^{-2}$	$3.853 \times 10^{-3}$	$5.551 \times 10^{-3}$
0.8400	0.1800	$1.174 \times 10^{-1}$	$1.946 \times 10^{-2}$	$9.926 \times 10^{-4}$	$4.776 \times 10^{-3}$
0.8467	0.1800	$1.151 \times 10^{-1}$	$1.943 \times 10^{-2}$	$4.445 \times 10^{-4}$	$4.609 \times 10^{-3}$
0.8533	0.1800	$1.047 \times 10^{-1}$	$1.882 \times 10^{-2}$	$-1.848 \times 10^{-3}$	$3.922 \times 10^{-3}$
0.8600	0.1800	$9.533 \times 10^{-2}$	$1.796 \times 10^{-2}$	$-3.110 \times 10^{-3}$	$3.391 \times 10^{-3}$
0.8667	0.1800	$9.066 \times 10^{-2}$	$1.754 \times 10^{-2}$	$-3.884 \times 10^{-3}$	$3.074 \times 10^{-3}$
0.8733	0.1800	$8.620 \times 10^{-2}$	$1.718 \times 10^{-2}$	$-4.138 \times 10^{-3}$	$2.879 \times 10^{-3}$
0.8800	0.1800	$7.604 \times 10^{-2}$	$1.631 \times 10^{-2}$	$-5.047 \times 10^{-3}$	$2.432 \times 10^{-3}$
0.8867	0.1800	$7.302 \times 10^{-2}$	$1.575 \times 10^{-2}$	$-5.117 \times 10^{-3}$	$2.291 \times 10^{-3}$
0.8933	0.1800	$6.769 \times 10^{-2}$	$1.494 \times 10^{-2}$	$-5.507 \times 10^{-3}$	$2.038 \times 10^{-3}$
0.9000	0.1800	$6.214 \times 10^{-2}$	$1.389 \times 10^{-2}$	$-5.671 \times 10^{-3}$	$1.779 \times 10^{-3}$
0.9067	0.1800	$6.152 \times 10^{-2}$	$1.372 \times 10^{-2}$	$-5.729 \times 10^{-3}$	$1.695 \times 10^{-3}$
0.9133	0.1800	$5.301 \times 10^{-2}$	$1.241 \times 10^{-2}$	$-5.937 \times 10^{-3}$	$1.424 \times 10^{-3}$
0.9200	0.1800	$4.960 \times 10^{-2}$	$1.196 \times 10^{-2}$	$-6.049 \times 10^{-3}$	$1.335 \times 10^{-3}$
0.9267	0.1800	$4.799 \times 10^{-2}$	$1.167 \times 10^{-2}$	$-6.036 \times 10^{-3}$	$1.274 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.1800	$4.354 \times 10^{-2}$	$1.095 \times 10^{-2}$	$-5.932 \times 10^{-3}$	$1.160 \times 10^{-3}$
0.9400	0.1800	$4.092 \times 10^{-2}$	$1.056 \times 10^{-2}$	$-6.024 \times 10^{-3}$	$1.065 \times 10^{-3}$
0.9467	0.1800	$3.962 \times 10^{-2}$	$1.037 \times 10^{-2}$	$-6.102 \times 10^{-3}$	$1.009 \times 10^{-3}$
0.9533	0.1800	$3.933 \times 10^{-2}$	$1.034 \times 10^{-2}$	$-6.132 \times 10^{-3}$	$9.975 \times 10^{-4}$
0.9600	0.1800	$3.445 \times 10^{-2}$	$9.411 \times 10^{-3}$	$-5.781 \times 10^{-3}$	$8.290 \times 10^{-4}$
0.9667	0.1800	$3.304 \times 10^{-2}$	$9.186 \times 10^{-3}$	$-5.722 \times 10^{-3}$	$7.905 \times 10^{-4}$
0.9733	0.1800	$3.090 \times 10^{-2}$	$8.962 \times 10^{-3}$	$-5.379 \times 10^{-3}$	$7.228 \times 10^{-4}$
0.9800	0.1800	$2.864 \times 10^{-2}$	$8.682 \times 10^{-3}$	$-5.163 \times 10^{-3}$	$6.677 \times 10^{-4}$
0.9867	0.1800	$2.680 \times 10^{-2}$	$8.917 \times 10^{-3}$	$-4.880 \times 10^{-3}$	$6.433 \times 10^{-4}$
0.9933	0.1800	$2.362 \times 10^{-2}$	$8.633 \times 10^{-3}$	$-4.487 \times 10^{-3}$	$6.153 \times 10^{-4}$
1.0000	0.1800	$2.245 \times 10^{-2}$	$8.563 \times 10^{-3}$	$-4.330 \times 10^{-3}$	$6.089 \times 10^{-4}$
0.4667	0.1867	$3.240 \times 10^{-2}$	$1.053 \times 10^{-2}$	$1.970 \times 10^{-4}$	$4.570 \times 10^{-3}$
0.4733	0.1867	$3.282 \times 10^{-2}$	$1.029 \times 10^{-2}$	$2.105 \times 10^{-4}$	$4.542 \times 10^{-3}$
0.4800	0.1867	$3.354 \times 10^{-2}$	$9.863 \times 10^{-3}$	$3.440 \times 10^{-4}$	$4.471 \times 10^{-3}$
0.4867	0.1867	$3.432 \times 10^{-2}$	$9.525 \times 10^{-3}$	$4.545 \times 10^{-4}$	$4.494 \times 10^{-3}$
0.4933	0.1867	$3.565 \times 10^{-2}$	$9.117 \times 10^{-3}$	$6.319 \times 10^{-4}$	$4.585 \times 10^{-3}$
0.5000	0.1867	$3.743 \times 10^{-2}$	$8.782 \times 10^{-3}$	$8.185 \times 10^{-4}$	$4.677 \times 10^{-3}$
0.5067	0.1867	$3.972 \times 10^{-2}$	$8.318 \times 10^{-3}$	$8.978 \times 10^{-4}$	$4.692 \times 10^{-3}$
0.5133	0.1867	$4.225 \times 10^{-2}$	$7.530 \times 10^{-3}$	$1.092 \times 10^{-3}$	$4.613 \times 10^{-3}$
0.5200	0.1867	$4.422 \times 10^{-2}$	$6.421 \times 10^{-3}$	$1.391 \times 10^{-3}$	$4.329 \times 10^{-3}$
0.5267	0.1867	$4.618 \times 10^{-2}$	$5.319 \times 10^{-3}$	$1.527 \times 10^{-3}$	$4.076 \times 10^{-3}$
0.5333	0.1867	$4.806 \times 10^{-2}$	$4.220 \times 10^{-3}$	$1.720 \times 10^{-3}$	$3.827 \times 10^{-3}$
0.5400	0.1867	$5.015 \times 10^{-2}$	$3.255 \times 10^{-3}$	$1.861 \times 10^{-3}$	$3.719 \times 10^{-3}$
0.5467	0.1867	$5.281 \times 10^{-2}$	$2.541 \times 10^{-3}$	$2.135 \times 10^{-3}$	$3.660 \times 10^{-3}$
0.5533	0.1867	$5.540 \times 10^{-2}$	$1.850 \times 10^{-3}$	$2.261 \times 10^{-3}$	$3.594 \times 10^{-3}$
0.5600	0.1867	$5.780 \times 10^{-2}$	$1.388 \times 10^{-3}$	$2.492 \times 10^{-3}$	$3.426 \times 10^{-3}$
0.5667	0.1867	$6.021 \times 10^{-2}$	$9.010 \times 10^{-4}$	$2.548 \times 10^{-3}$	$3.287 \times 10^{-3}$
0.5733	0.1867	$6.226 \times 10^{-2}$	$4.754 \times 10^{-4}$	$2.683 \times 10^{-3}$	$3.167 \times 10^{-3}$
0.5800	0.1867	$6.427 \times 10^{-2}$	$-6.960 \times 10^{-5}$	$2.717 \times 10^{-3}$	$3.022 \times 10^{-3}$
0.5867	0.1867	$6.631 \times 10^{-2}$	$-3.496 \times 10^{-4}$	$2.979 \times 10^{-3}$	$2.952 \times 10^{-3}$
0.5933	0.1867	$6.842 \times 10^{-2}$	$-7.458 \times 10^{-4}$	$3.184 \times 10^{-3}$	$2.851 \times 10^{-3}$
0.6000	0.1867	$7.031 \times 10^{-2}$	$-8.460 \times 10^{-4}$	$3.333 \times 10^{-3}$	$2.793 \times 10^{-3}$
0.6067	0.1867	$7.223 \times 10^{-2}$	$-1.013 \times 10^{-3}$	$3.375 \times 10^{-3}$	$2.740 \times 10^{-3}$
0.6133	0.1867	$7.344 \times 10^{-2}$	$-1.026 \times 10^{-3}$	$3.342 \times 10^{-3}$	$2.672 \times 10^{-3}$
0.6200	0.1867	$7.494 \times 10^{-2}$	$-1.074 \times 10^{-3}$	$3.368 \times 10^{-3}$	$2.596 \times 10^{-3}$
0.6267	0.1867	$7.594 \times 10^{-2}$	$-1.151 \times 10^{-3}$	$3.556 \times 10^{-3}$	$2.557 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.1867	$7.706 \times 10^{-2}$	$-1.283 \times 10^{-3}$	$3.668 \times 10^{-3}$	$2.510 \times 10^{-3}$
0.6400	0.1867	$7.779 \times 10^{-2}$	$-1.317 \times 10^{-3}$	$3.913 \times 10^{-3}$	$2.488 \times 10^{-3}$
0.6467	0.1867	$7.873 \times 10^{-2}$	$-1.436 \times 10^{-3}$	$4.053 \times 10^{-3}$	$2.471 \times 10^{-3}$
0.6533	0.1867	$7.900 \times 10^{-2}$	$-1.400 \times 10^{-3}$	$4.228 \times 10^{-3}$	$2.493 \times 10^{-3}$
0.6600	0.1867	$7.957 \times 10^{-2}$	$-1.595 \times 10^{-3}$	$4.418 \times 10^{-3}$	$2.559 \times 10^{-3}$
0.6667	0.1867	$7.927 \times 10^{-2}$	$-1.718 \times 10^{-3}$	$4.854 \times 10^{-3}$	$2.657 \times 10^{-3}$
0.6733	0.1867	$7.939 \times 10^{-2}$	$-1.793 \times 10^{-3}$	$4.949 \times 10^{-3}$	$2.697 \times 10^{-3}$
0.6800	0.1867	$8.001 \times 10^{-2}$	$-2.326 \times 10^{-3}$	$5.838 \times 10^{-3}$	$3.021 \times 10^{-3}$
0.6867	0.1867	$8.004 \times 10^{-2}$	$-2.403 \times 10^{-3}$	$6.031 \times 10^{-3}$	$3.083 \times 10^{-3}$
0.6933	0.1867	$8.083 \times 10^{-2}$	$-3.033 \times 10^{-3}$	$7.019 \times 10^{-3}$	$3.461 \times 10^{-3}$
0.7000	0.1867	$8.141 \times 10^{-2}$	$-3.666 \times 10^{-3}$	$8.086 \times 10^{-3}$	$3.782 \times 10^{-3}$
0.7067	0.1867	$8.175 \times 10^{-2}$	$-3.947 \times 10^{-3}$	$8.428 \times 10^{-3}$	$3.901 \times 10^{-3}$
0.7133	0.1867	$8.365 \times 10^{-2}$	$-4.289 \times 10^{-3}$	$9.896 \times 10^{-3}$	$4.263 \times 10^{-3}$
0.7200	0.1867	$8.403 \times 10^{-2}$	$-4.381 \times 10^{-3}$	$1.017 \times 10^{-2}$	$4.333 \times 10^{-3}$
0.7267	0.1867	$8.804 \times 10^{-2}$	$-4.857 \times 10^{-3}$	$1.174 \times 10^{-2}$	$4.782 \times 10^{-3}$
0.7333	0.1867	$8.944 \times 10^{-2}$	$-4.871 \times 10^{-3}$	$1.216 \times 10^{-2}$	$4.943 \times 10^{-3}$
0.7400	0.1867	$9.443 \times 10^{-2}$	$-4.957 \times 10^{-3}$	$1.360 \times 10^{-2}$	$5.490 \times 10^{-3}$
0.7467	0.1867	$1.014 \times 10^{-1}$	$-4.578 \times 10^{-3}$	$1.522 \times 10^{-2}$	$6.076 \times 10^{-3}$
0.7533	0.1867	$1.043 \times 10^{-1}$	$-4.172 \times 10^{-3}$	$1.582 \times 10^{-2}$	$6.321 \times 10^{-3}$
0.7600	0.1867	$1.111 \times 10^{-1}$	$-3.245 \times 10^{-3}$	$1.709 \times 10^{-2}$	$6.879 \times 10^{-3}$
0.7667	0.1867	$1.187 \times 10^{-1}$	$-1.029 \times 10^{-3}$	$1.795 \times 10^{-2}$	$7.277 \times 10^{-3}$
0.7733	0.1867	$1.230 \times 10^{-1}$	$4.096 \times 10^{-4}$	$1.821 \times 10^{-2}$	$7.465 \times 10^{-3}$
0.7800	0.1867	$1.239 \times 10^{-1}$	$1.031 \times 10^{-3}$	$1.835 \times 10^{-2}$	$7.490 \times 10^{-3}$
0.7867	0.1867	$1.354 \times 10^{-1}$	$4.889 \times 10^{-3}$	$1.776 \times 10^{-2}$	$7.899 \times 10^{-3}$
0.7933	0.1867	$1.363 \times 10^{-1}$	$6.371 \times 10^{-3}$	$1.703 \times 10^{-2}$	$7.745 \times 10^{-3}$
0.8000	0.1867	$1.381 \times 10^{-1}$	$8.079 \times 10^{-3}$	$1.650 \times 10^{-2}$	$7.635 \times 10^{-3}$
0.8067	0.1867	$1.400 \times 10^{-1}$	$1.164 \times 10^{-2}$	$1.377 \times 10^{-2}$	$7.351 \times 10^{-3}$
0.8133	0.1867	$1.397 \times 10^{-1}$	$1.267 \times 10^{-2}$	$1.284 \times 10^{-2}$	$7.181 \times 10^{-3}$
0.8200	0.1867	$1.386 \times 10^{-1}$	$1.462 \times 10^{-2}$	$1.122 \times 10^{-2}$	$6.760 \times 10^{-3}$
0.8267	0.1867	$1.347 \times 10^{-1}$	$1.678 \times 10^{-2}$	$8.346 \times 10^{-3}$	$6.285 \times 10^{-3}$
0.8333	0.1867	$1.310 \times 10^{-1}$	$1.766 \times 10^{-2}$	$6.472 \times 10^{-3}$	$5.929 \times 10^{-3}$
0.8400	0.1867	$1.268 \times 10^{-1}$	$1.864 \times 10^{-2}$	$4.682 \times 10^{-3}$	$5.453 \times 10^{-3}$
0.8467	0.1867	$1.177 \times 10^{-1}$	$1.903 \times 10^{-2}$	$1.882 \times 10^{-3}$	$4.740 \times 10^{-3}$
0.8533	0.1867	$1.152 \times 10^{-1}$	$1.902 \times 10^{-2}$	$1.280 \times 10^{-3}$	$4.539 \times 10^{-3}$
0.8600	0.1867	$1.046 \times 10^{-1}$	$1.840 \times 10^{-2}$	$-1.328 \times 10^{-3}$	$3.833 \times 10^{-3}$
0.8667	0.1867	$9.732 \times 10^{-2}$	$1.787 \times 10^{-2}$	$-2.481 \times 10^{-3}$	$3.394 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.1867	$9.081 \times 10^{-2}$	$1.753 \times 10^{-2}$	$-3.359 \times 10^{-3}$	$3.058 \times 10^{-3}$
0.8800	0.1867	$8.744 \times 10^{-2}$	$1.740 \times 10^{-2}$	$-3.732 \times 10^{-3}$	$2.918 \times 10^{-3}$
0.8867	0.1867	$8.473 \times 10^{-2}$	$1.740 \times 10^{-2}$	$-4.091 \times 10^{-3}$	$2.806 \times 10^{-3}$
0.8933	0.1867	$7.597 \times 10^{-2}$	$1.620 \times 10^{-2}$	$-4.982 \times 10^{-3}$	$2.380 \times 10^{-3}$
0.9000	0.1867	$7.401 \times 10^{-2}$	$1.588 \times 10^{-2}$	$-5.135 \times 10^{-3}$	$2.273 \times 10^{-3}$
0.9067	0.1867	$6.321 \times 10^{-2}$	$1.401 \times 10^{-2}$	$-5.680 \times 10^{-3}$	$1.754 \times 10^{-3}$
0.9133	0.1867	$5.850 \times 10^{-2}$	$1.345 \times 10^{-2}$	$-5.894 \times 10^{-3}$	$1.574 \times 10^{-3}$
0.9200	0.1867	$5.707 \times 10^{-2}$	$1.321 \times 10^{-2}$	$-5.949 \times 10^{-3}$	$1.517 \times 10^{-3}$
0.9267	0.1867	$5.276 \times 10^{-2}$	$1.240 \times 10^{-2}$	$-6.132 \times 10^{-3}$	$1.359 \times 10^{-3}$
0.9333	0.1867	$4.865 \times 10^{-2}$	$1.182 \times 10^{-2}$	$-6.143 \times 10^{-3}$	$1.255 \times 10^{-3}$
0.9400	0.1867	$4.689 \times 10^{-2}$	$1.159 \times 10^{-2}$	$-6.176 \times 10^{-3}$	$1.207 \times 10^{-3}$
0.9467	0.1867	$4.565 \times 10^{-2}$	$1.131 \times 10^{-2}$	$-6.122 \times 10^{-3}$	$1.140 \times 10^{-3}$
0.9533	0.1867	$4.261 \times 10^{-2}$	$1.079 \times 10^{-2}$	$-6.039 \times 10^{-3}$	$1.013 \times 10^{-3}$
0.9600	0.1867	$4.275 \times 10^{-2}$	$1.080 \times 10^{-2}$	$-6.017 \times 10^{-3}$	$9.945 \times 10^{-4}$
0.9667	0.1867	$3.790 \times 10^{-2}$	$1.030 \times 10^{-2}$	$-5.802 \times 10^{-3}$	$9.001 \times 10^{-4}$
0.9733	0.1867	$3.637 \times 10^{-2}$	$1.032 \times 10^{-2}$	$-5.728 \times 10^{-3}$	$8.711 \times 10^{-4}$
0.9800	0.1867	$3.335 \times 10^{-2}$	$9.952 \times 10^{-3}$	$-5.469 \times 10^{-3}$	$8.013 \times 10^{-4}$
0.9867	0.1867	$2.832 \times 10^{-2}$	$9.401 \times 10^{-3}$	$-5.013 \times 10^{-3}$	$6.769 \times 10^{-4}$
0.9933	0.1867	$2.791 \times 10^{-2}$	$9.404 \times 10^{-3}$	$-4.961 \times 10^{-3}$	$6.798 \times 10^{-4}$
1.0000	0.1867	$2.439 \times 10^{-2}$	$9.167 \times 10^{-3}$	$-4.536 \times 10^{-3}$	$6.650 \times 10^{-4}$
0.4667	0.1933	$3.227 \times 10^{-2}$	$1.067 \times 10^{-2}$	$2.558 \times 10^{-4}$	$4.596 \times 10^{-3}$
0.4733	0.1933	$3.292 \times 10^{-2}$	$1.012 \times 10^{-2}$	$2.799 \times 10^{-4}$	$4.450 \times 10^{-3}$
0.4800	0.1933	$3.305 \times 10^{-2}$	$1.003 \times 10^{-2}$	$2.847 \times 10^{-4}$	$4.425 \times 10^{-3}$
0.4867	0.1933	$3.440 \times 10^{-2}$	$9.379 \times 10^{-3}$	$4.898 \times 10^{-4}$	$4.509 \times 10^{-3}$
0.4933	0.1933	$3.463 \times 10^{-2}$	$9.259 \times 10^{-3}$	$5.122 \times 10^{-4}$	$4.527 \times 10^{-3}$
0.5000	0.1933	$3.788 \times 10^{-2}$	$8.800 \times 10^{-3}$	$7.655 \times 10^{-4}$	$4.688 \times 10^{-3}$
0.5067	0.1933	$3.847 \times 10^{-2}$	$8.723 \times 10^{-3}$	$8.017 \times 10^{-4}$	$4.724 \times 10^{-3}$
0.5133	0.1933	$4.241 \times 10^{-2}$	$7.253 \times 10^{-3}$	$1.300 \times 10^{-3}$	$4.478 \times 10^{-3}$
0.5200	0.1933	$4.314 \times 10^{-2}$	$6.999 \times 10^{-3}$	$1.395 \times 10^{-3}$	$4.438 \times 10^{-3}$
0.5267	0.1933	$4.612 \times 10^{-2}$	$5.159 \times 10^{-3}$	$1.644 \times 10^{-3}$	$3.934 \times 10^{-3}$
0.5333	0.1933	$4.665 \times 10^{-2}$	$4.850 \times 10^{-3}$	$1.684 \times 10^{-3}$	$3.844 \times 10^{-3}$
0.5400	0.1933	$5.035 \times 10^{-2}$	$3.300 \times 10^{-3}$	$2.079 \times 10^{-3}$	$3.712 \times 10^{-3}$
0.5467	0.1933	$5.099 \times 10^{-2}$	$3.047 \times 10^{-3}$	$2.150 \times 10^{-3}$	$3.690 \times 10^{-3}$
0.5533	0.1933	$5.531 \times 10^{-2}$	$1.946 \times 10^{-3}$	$2.492 \times 10^{-3}$	$3.542 \times 10^{-3}$
0.5600	0.1933	$5.606 \times 10^{-2}$	$1.765 \times 10^{-3}$	$2.561 \times 10^{-3}$	$3.512 \times 10^{-3}$
0.5667	0.1933	$6.016 \times 10^{-2}$	$1.064 \times 10^{-3}$	$2.702 \times 10^{-3}$	$3.325 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.1933	$6.087 \times 10^{-2}$	$9.515 \times 10^{-4}$	$2.727 \times 10^{-3}$	$3.289 \times 10^{-3}$
0.5800	0.1933	$6.419 \times 10^{-2}$	$1.502 \times 10^{-4}$	$2.856 \times 10^{-3}$	$3.079 \times 10^{-3}$
0.5867	0.1933	$6.477 \times 10^{-2}$	$1.519 \times 10^{-5}$	$2.863 \times 10^{-3}$	$3.038 \times 10^{-3}$
0.5933	0.1933	$6.825 \times 10^{-2}$	$-5.841 \times 10^{-4}$	$3.284 \times 10^{-3}$	$2.860 \times 10^{-3}$
0.6000	0.1933	$6.886 \times 10^{-2}$	$-6.896 \times 10^{-4}$	$3.343 \times 10^{-3}$	$2.824 \times 10^{-3}$
0.6067	0.1933	$7.172 \times 10^{-2}$	$-9.234 \times 10^{-4}$	$3.344 \times 10^{-3}$	$2.747 \times 10^{-3}$
0.6133	0.1933	$7.223 \times 10^{-2}$	$-9.724 \times 10^{-4}$	$3.333 \times 10^{-3}$	$2.734 \times 10^{-3}$
0.6200	0.1933	$7.458 \times 10^{-2}$	$-9.989 \times 10^{-4}$	$3.523 \times 10^{-3}$	$2.614 \times 10^{-3}$
0.6267	0.1933	$7.503 \times 10^{-2}$	$-1.009 \times 10^{-3}$	$3.543 \times 10^{-3}$	$2.594 \times 10^{-3}$
0.6333	0.1933	$7.665 \times 10^{-2}$	$-1.137 \times 10^{-3}$	$3.847 \times 10^{-3}$	$2.516 \times 10^{-3}$
0.6400	0.1933	$7.697 \times 10^{-2}$	$-1.160 \times 10^{-3}$	$3.884 \times 10^{-3}$	$2.502 \times 10^{-3}$
0.6467	0.1933	$7.811 \times 10^{-2}$	$-1.204 \times 10^{-3}$	$4.135 \times 10^{-3}$	$2.463 \times 10^{-3}$
0.6533	0.1933	$7.843 \times 10^{-2}$	$-1.213 \times 10^{-3}$	$4.180 \times 10^{-3}$	$2.452 \times 10^{-3}$
0.6600	0.1933	$7.859 \times 10^{-2}$	$-1.325 \times 10^{-3}$	$4.412 \times 10^{-3}$	$2.517 \times 10^{-3}$
0.6667	0.1933	$7.913 \times 10^{-2}$	$-1.654 \times 10^{-3}$	$4.833 \times 10^{-3}$	$2.644 \times 10^{-3}$
0.6733	0.1933	$7.913 \times 10^{-2}$	$-1.689 \times 10^{-3}$	$5.028 \times 10^{-3}$	$2.695 \times 10^{-3}$
0.6800	0.1933	$7.976 \times 10^{-2}$	$-2.214 \times 10^{-3}$	$5.816 \times 10^{-3}$	$2.989 \times 10^{-3}$
0.6867	0.1933	$7.987 \times 10^{-2}$	$-2.300 \times 10^{-3}$	$5.922 \times 10^{-3}$	$3.031 \times 10^{-3}$
0.6933	0.1933	$7.997 \times 10^{-2}$	$-2.690 \times 10^{-3}$	$6.997 \times 10^{-3}$	$3.367 \times 10^{-3}$
0.7000	0.1933	$7.996 \times 10^{-2}$	$-2.741 \times 10^{-3}$	$7.162 \times 10^{-3}$	$3.416 \times 10^{-3}$
0.7067	0.1933	$8.093 \times 10^{-2}$	$-3.292 \times 10^{-3}$	$8.437 \times 10^{-3}$	$3.790 \times 10^{-3}$
0.7133	0.1933	$8.109 \times 10^{-2}$	$-3.329 \times 10^{-3}$	$8.843 \times 10^{-3}$	$3.883 \times 10^{-3}$
0.7200	0.1933	$8.275 \times 10^{-2}$	$-3.707 \times 10^{-3}$	$1.009 \times 10^{-2}$	$4.225 \times 10^{-3}$
0.7267	0.1933	$8.359 \times 10^{-2}$	$-3.816 \times 10^{-3}$	$1.050 \times 10^{-2}$	$4.346 \times 10^{-3}$
0.7333	0.1933	$8.624 \times 10^{-2}$	$-4.245 \times 10^{-3}$	$1.178 \times 10^{-2}$	$4.769 \times 10^{-3}$
0.7400	0.1933	$9.026 \times 10^{-2}$	$-4.361 \times 10^{-3}$	$1.286 \times 10^{-2}$	$5.099 \times 10^{-3}$
0.7467	0.1933	$9.230 \times 10^{-2}$	$-4.321 \times 10^{-3}$	$1.354 \times 10^{-2}$	$5.259 \times 10^{-3}$
0.7533	0.1933	$9.968 \times 10^{-2}$	$-3.902 \times 10^{-3}$	$1.537 \times 10^{-2}$	$5.984 \times 10^{-3}$
0.7600	0.1933	$1.048 \times 10^{-1}$	$-2.995 \times 10^{-3}$	$1.627 \times 10^{-2}$	$6.338 \times 10^{-3}$
0.7667	0.1933	$1.106 \times 10^{-1}$	$-1.842 \times 10^{-3}$	$1.737 \times 10^{-2}$	$6.745 \times 10^{-3}$
0.7733	0.1933	$1.173 \times 10^{-1}$	$-2.275 \times 10^{-4}$	$1.785 \times 10^{-2}$	$7.088 \times 10^{-3}$
0.7800	0.1933	$1.220 \times 10^{-1}$	$8.423 \times 10^{-4}$	$1.821 \times 10^{-2}$	$7.348 \times 10^{-3}$
0.7867	0.1933	$1.276 \times 10^{-1}$	$3.357 \times 10^{-3}$	$1.793 \times 10^{-2}$	$7.429 \times 10^{-3}$
0.7933	0.1933	$1.281 \times 10^{-1}$	$3.660 \times 10^{-3}$	$1.786 \times 10^{-2}$	$7.431 \times 10^{-3}$
0.8000	0.1933	$1.332 \times 10^{-1}$	$6.962 \times 10^{-3}$	$1.697 \times 10^{-2}$	$7.378 \times 10^{-3}$
0.8067	0.1933	$1.341 \times 10^{-1}$	$7.879 \times 10^{-3}$	$1.646 \times 10^{-2}$	$7.341 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.1933	$1.363 \times 10^{-1}$	$1.047 \times 10^{-2}$	$1.525 \times 10^{-2}$	$7.203 \times 10^{-3}$
0.8200	0.1933	$1.368 \times 10^{-1}$	$1.332 \times 10^{-2}$	$1.255 \times 10^{-2}$	$6.771 \times 10^{-3}$
0.8267	0.1933	$1.354 \times 10^{-1}$	$1.472 \times 10^{-2}$	$1.095 \times 10^{-2}$	$6.506 \times 10^{-3}$
0.8333	0.1933	$1.330 \times 10^{-1}$	$1.624 \times 10^{-2}$	$9.277 \times 10^{-3}$	$6.186 \times 10^{-3}$
0.8400	0.1933	$1.280 \times 10^{-1}$	$1.825 \times 10^{-2}$	$5.548 \times 10^{-3}$	$5.578 \times 10^{-3}$
0.8467	0.1933	$1.250 \times 10^{-1}$	$1.795 \times 10^{-2}$	$5.388 \times 10^{-3}$	$5.344 \times 10^{-3}$
0.8533	0.1933	$1.177 \times 10^{-1}$	$1.849 \times 10^{-2}$	$2.665 \times 10^{-3}$	$4.701 \times 10^{-3}$
0.8600	0.1933	$1.158 \times 10^{-1}$	$1.851 \times 10^{-2}$	$2.069 \times 10^{-3}$	$4.510 \times 10^{-3}$
0.8667	0.1933	$1.045 \times 10^{-1}$	$1.820 \times 10^{-2}$	$-9.460 \times 10^{-4}$	$3.716 \times 10^{-3}$
0.8733	0.1933	$1.001 \times 10^{-1}$	$1.830 \times 10^{-2}$	$-1.397 \times 10^{-3}$	$3.511 \times 10^{-3}$
0.8800	0.1933	$9.535 \times 10^{-2}$	$1.804 \times 10^{-2}$	$-2.218 \times 10^{-3}$	$3.286 \times 10^{-3}$
0.8867	0.1933	$8.900 \times 10^{-2}$	$1.776 \times 10^{-2}$	$-3.253 \times 10^{-3}$	$2.989 \times 10^{-3}$
0.8933	0.1933	$8.056 \times 10^{-2}$	$1.683 \times 10^{-2}$	$-4.498 \times 10^{-3}$	$2.577 \times 10^{-3}$
0.9000	0.1933	$7.806 \times 10^{-2}$	$1.653 \times 10^{-2}$	$-4.821 \times 10^{-3}$	$2.452 \times 10^{-3}$
0.9067	0.1933	$7.131 \times 10^{-2}$	$1.550 \times 10^{-2}$	$-5.434 \times 10^{-3}$	$2.084 \times 10^{-3}$
0.9133	0.1933	$7.047 \times 10^{-2}$	$1.536 \times 10^{-2}$	$-5.500 \times 10^{-3}$	$2.042 \times 10^{-3}$
0.9200	0.1933	$6.514 \times 10^{-2}$	$1.427 \times 10^{-2}$	$-5.702 \times 10^{-3}$	$1.741 \times 10^{-3}$
0.9267	0.1933	$6.045 \times 10^{-2}$	$1.352 \times 10^{-2}$	$-5.909 \times 10^{-3}$	$1.582 \times 10^{-3}$
0.9333	0.1933	$5.892 \times 10^{-2}$	$1.320 \times 10^{-2}$	$-6.087 \times 10^{-3}$	$1.505 \times 10^{-3}$
0.9400	0.1933	$5.171 \times 10^{-2}$	$1.223 \times 10^{-2}$	$-6.138 \times 10^{-3}$	$1.279 \times 10^{-3}$
0.9467	0.1933	$5.104 \times 10^{-2}$	$1.213 \times 10^{-2}$	$-6.164 \times 10^{-3}$	$1.246 \times 10^{-3}$
0.9533	0.1933	$4.575 \times 10^{-2}$	$1.127 \times 10^{-2}$	$-6.022 \times 10^{-3}$	$1.082 \times 10^{-3}$
0.9600	0.1933	$4.342 \times 10^{-2}$	$1.092 \times 10^{-2}$	$-6.010 \times 10^{-3}$	$1.011 \times 10^{-3}$
0.9667	0.1933	$4.375 \times 10^{-2}$	$1.116 \times 10^{-2}$	$-5.906 \times 10^{-3}$	$1.034 \times 10^{-3}$
0.9733	0.1933	$3.758 \times 10^{-2}$	$1.051 \times 10^{-2}$	$-5.751 \times 10^{-3}$	$9.017 \times 10^{-4}$
0.9800	0.1933	$3.599 \times 10^{-2}$	$1.066 \times 10^{-2}$	$-5.621 \times 10^{-3}$	$8.862 \times 10^{-4}$
0.9867	0.1933	$3.304 \times 10^{-2}$	$1.074 \times 10^{-2}$	$-5.423 \times 10^{-3}$	$8.443 \times 10^{-4}$
0.9933	0.1933	$2.979 \times 10^{-2}$	$1.065 \times 10^{-2}$	$-5.091 \times 10^{-3}$	$8.108 \times 10^{-4}$
1.0000	0.1933	$2.858 \times 10^{-2}$	$1.062 \times 10^{-2}$	$-4.974 \times 10^{-3}$	$7.992 \times 10^{-4}$
0.4667	0.2000	$3.208 \times 10^{-2}$	$1.052 \times 10^{-2}$	$2.302 \times 10^{-4}$	$4.533 \times 10^{-3}$
0.4733	0.2000	$3.218 \times 10^{-2}$	$1.029 \times 10^{-2}$	$2.728 \times 10^{-4}$	$4.471 \times 10^{-3}$
0.4800	0.2000	$3.310 \times 10^{-2}$	$9.924 \times 10^{-3}$	$4.255 \times 10^{-4}$	$4.410 \times 10^{-3}$
0.4867	0.2000	$3.353 \times 10^{-2}$	$9.719 \times 10^{-3}$	$5.497 \times 10^{-4}$	$4.394 \times 10^{-3}$
0.4933	0.2000	$3.508 \times 10^{-2}$	$9.301 \times 10^{-3}$	$5.924 \times 10^{-4}$	$4.514 \times 10^{-3}$
0.5000	0.2000	$3.592 \times 10^{-2}$	$9.143 \times 10^{-3}$	$6.602 \times 10^{-4}$	$4.546 \times 10^{-3}$
0.5067	0.2000	$3.866 \times 10^{-2}$	$8.378 \times 10^{-3}$	$9.263 \times 10^{-4}$	$4.596 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.2000	$3.979 \times 10^{-2}$	$7.939 \times 10^{-3}$	$1.088 \times 10^{-3}$	$4.546 \times 10^{-3}$
0.5200	0.2000	$4.304 \times 10^{-2}$	$6.714 \times 10^{-3}$	$1.469 \times 10^{-3}$	$4.312 \times 10^{-3}$
0.5267	0.2000	$4.418 \times 10^{-2}$	$6.117 \times 10^{-3}$	$1.630 \times 10^{-3}$	$4.166 \times 10^{-3}$
0.5333	0.2000	$4.667 \times 10^{-2}$	$4.770 \times 10^{-3}$	$1.815 \times 10^{-3}$	$3.861 \times 10^{-3}$
0.5400	0.2000	$4.784 \times 10^{-2}$	$4.170 \times 10^{-3}$	$1.971 \times 10^{-3}$	$3.764 \times 10^{-3}$
0.5467	0.2000	$5.088 \times 10^{-2}$	$3.040 \times 10^{-3}$	$2.191 \times 10^{-3}$	$3.685 \times 10^{-3}$
0.5533	0.2000	$5.225 \times 10^{-2}$	$2.584 \times 10^{-3}$	$2.322 \times 10^{-3}$	$3.648 \times 10^{-3}$
0.5600	0.2000	$5.589 \times 10^{-2}$	$1.821 \times 10^{-3}$	$2.594 \times 10^{-3}$	$3.565 \times 10^{-3}$
0.5667	0.2000	$5.736 \times 10^{-2}$	$1.544 \times 10^{-3}$	$2.715 \times 10^{-3}$	$3.545 \times 10^{-3}$
0.5733	0.2000	$6.070 \times 10^{-2}$	$1.031 \times 10^{-3}$	$2.888 \times 10^{-3}$	$3.358 \times 10^{-3}$
0.5800	0.2000	$6.200 \times 10^{-2}$	$8.256 \times 10^{-4}$	$3.034 \times 10^{-3}$	$3.314 \times 10^{-3}$
0.5867	0.2000	$6.468 \times 10^{-2}$	$1.092 \times 10^{-4}$	$3.103 \times 10^{-3}$	$3.093 \times 10^{-3}$
0.5933	0.2000	$6.583 \times 10^{-2}$	$-1.210 \times 10^{-4}$	$3.270 \times 10^{-3}$	$3.036 \times 10^{-3}$
0.6000	0.2000	$6.849 \times 10^{-2}$	$-5.706 \times 10^{-4}$	$3.384 \times 10^{-3}$	$2.849 \times 10^{-3}$
0.6067	0.2000	$6.941 \times 10^{-2}$	$-6.722 \times 10^{-4}$	$3.443 \times 10^{-3}$	$2.800 \times 10^{-3}$
0.6133	0.2000	$7.172 \times 10^{-2}$	$-8.492 \times 10^{-4}$	$3.512 \times 10^{-3}$	$2.722 \times 10^{-3}$
0.6200	0.2000	$7.247 \times 10^{-2}$	$-8.575 \times 10^{-4}$	$3.642 \times 10^{-3}$	$2.684 \times 10^{-3}$
0.6267	0.2000	$7.453 \times 10^{-2}$	$-9.409 \times 10^{-4}$	$3.808 \times 10^{-3}$	$2.607 \times 10^{-3}$
0.6333	0.2000	$7.512 \times 10^{-2}$	$-9.464 \times 10^{-4}$	$4.016 \times 10^{-3}$	$2.581 \times 10^{-3}$
0.6400	0.2000	$7.652 \times 10^{-2}$	$-1.029 \times 10^{-3}$	$4.056 \times 10^{-3}$	$2.497 \times 10^{-3}$
0.6467	0.2000	$7.683 \times 10^{-2}$	$-9.943 \times 10^{-4}$	$4.187 \times 10^{-3}$	$2.468 \times 10^{-3}$
0.6533	0.2000	$7.777 \times 10^{-2}$	$-1.081 \times 10^{-3}$	$4.298 \times 10^{-3}$	$2.471 \times 10^{-3}$
0.6600	0.2000	$7.775 \times 10^{-2}$	$-1.035 \times 10^{-3}$	$4.428 \times 10^{-3}$	$2.486 \times 10^{-3}$
0.6667	0.2000	$7.820 \times 10^{-2}$	$-1.229 \times 10^{-3}$	$4.730 \times 10^{-3}$	$2.564 \times 10^{-3}$
0.6733	0.2000	$7.839 \times 10^{-2}$	$-1.324 \times 10^{-3}$	$5.085 \times 10^{-3}$	$2.632 \times 10^{-3}$
0.6800	0.2000	$7.851 \times 10^{-2}$	$-1.420 \times 10^{-3}$	$5.189 \times 10^{-3}$	$2.675 \times 10^{-3}$
0.6867	0.2000	$7.901 \times 10^{-2}$	$-1.918 \times 10^{-3}$	$5.919 \times 10^{-3}$	$2.944 \times 10^{-3}$
0.6933	0.2000	$7.949 \times 10^{-2}$	$-2.406 \times 10^{-3}$	$6.763 \times 10^{-3}$	$3.248 \times 10^{-3}$
0.7000	0.2000	$7.986 \times 10^{-2}$	$-2.680 \times 10^{-3}$	$7.180 \times 10^{-3}$	$3.408 \times 10^{-3}$
0.7067	0.2000	$8.042 \times 10^{-2}$	$-3.011 \times 10^{-3}$	$8.325 \times 10^{-3}$	$3.719 \times 10^{-3}$
0.7133	0.2000	$8.081 \times 10^{-2}$	$-3.217 \times 10^{-3}$	$8.743 \times 10^{-3}$	$3.845 \times 10^{-3}$
0.7200	0.2000	$8.203 \times 10^{-2}$	$-3.453 \times 10^{-3}$	$9.889 \times 10^{-3}$	$4.147 \times 10^{-3}$
0.7267	0.2000	$8.260 \times 10^{-2}$	$-3.569 \times 10^{-3}$	$1.029 \times 10^{-2}$	$4.265 \times 10^{-3}$
0.7333	0.2000	$8.542 \times 10^{-2}$	$-4.047 \times 10^{-3}$	$1.157 \times 10^{-2}$	$4.684 \times 10^{-3}$
0.7400	0.2000	$8.671 \times 10^{-2}$	$-3.861 \times 10^{-3}$	$1.210 \times 10^{-2}$	$4.764 \times 10^{-3}$
0.7467	0.2000	$9.081 \times 10^{-2}$	$-3.983 \times 10^{-3}$	$1.332 \times 10^{-2}$	$5.148 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.2000	$9.463 \times 10^{-2}$	$-3.647 \times 10^{-3}$	$1.443 \times 10^{-2}$	$5.527 \times 10^{-3}$
0.7600	0.2000	$9.898 \times 10^{-2}$	$-2.884 \times 10^{-3}$	$1.571 \times 10^{-2}$	$5.848 \times 10^{-3}$
0.7667	0.2000	$1.023 \times 10^{-1}$	$-2.451 \times 10^{-3}$	$1.620 \times 10^{-2}$	$6.088 \times 10^{-3}$
0.7733	0.2000	$1.109 \times 10^{-1}$	$-7.656 \times 10^{-4}$	$1.738 \times 10^{-2}$	$6.605 \times 10^{-3}$
0.7800	0.2000	$1.115 \times 10^{-1}$	$-5.926 \times 10^{-4}$	$1.753 \times 10^{-2}$	$6.630 \times 10^{-3}$
0.7867	0.2000	$1.199 \times 10^{-1}$	$1.699 \times 10^{-3}$	$1.774 \times 10^{-2}$	$7.019 \times 10^{-3}$
0.7933	0.2000	$1.219 \times 10^{-1}$	$2.718 \times 10^{-3}$	$1.783 \times 10^{-2}$	$7.022 \times 10^{-3}$
0.8000	0.2000	$1.263 \times 10^{-1}$	$4.610 \times 10^{-3}$	$1.749 \times 10^{-2}$	$7.135 \times 10^{-3}$
0.8067	0.2000	$1.296 \times 10^{-1}$	$6.713 \times 10^{-3}$	$1.717 \times 10^{-2}$	$7.181 \times 10^{-3}$
0.8133	0.2000	$1.348 \times 10^{-1}$	$9.834 \times 10^{-3}$	$1.566 \times 10^{-2}$	$7.163 \times 10^{-3}$
0.8200	0.2000	$1.344 \times 10^{-1}$	$1.155 \times 10^{-2}$	$1.420 \times 10^{-2}$	$6.796 \times 10^{-3}$
0.8267	0.2000	$1.347 \times 10^{-1}$	$1.291 \times 10^{-2}$	$1.301 \times 10^{-2}$	$6.619 \times 10^{-3}$
0.8333	0.2000	$1.333 \times 10^{-1}$	$1.581 \times 10^{-2}$	$1.003 \times 10^{-2}$	$6.249 \times 10^{-3}$
0.8400	0.2000	$1.305 \times 10^{-1}$	$1.586 \times 10^{-2}$	$9.496 \times 10^{-3}$	$5.999 \times 10^{-3}$
0.8467	0.2000	$1.265 \times 10^{-1}$	$1.761 \times 10^{-2}$	$6.309 \times 10^{-3}$	$5.481 \times 10^{-3}$
0.8533	0.2000	$1.231 \times 10^{-1}$	$1.752 \times 10^{-2}$	$5.654 \times 10^{-3}$	$5.171 \times 10^{-3}$
0.8600	0.2000	$1.176 \times 10^{-1}$	$1.806 \times 10^{-2}$	$3.379 \times 10^{-3}$	$4.637 \times 10^{-3}$
0.8667	0.2000	$1.158 \times 10^{-1}$	$1.820 \times 10^{-2}$	$2.774 \times 10^{-3}$	$4.400 \times 10^{-3}$
0.8733	0.2000	$1.031 \times 10^{-1}$	$1.849 \times 10^{-2}$	$-5.988 \times 10^{-4}$	$3.667 \times 10^{-3}$
0.8800	0.2000	$1.015 \times 10^{-1}$	$1.846 \times 10^{-2}$	$-8.435 \times 10^{-4}$	$3.580 \times 10^{-3}$
0.8867	0.2000	$9.775 \times 10^{-2}$	$1.871 \times 10^{-2}$	$-1.669 \times 10^{-3}$	$3.371 \times 10^{-3}$
0.8933	0.2000	$9.519 \times 10^{-2}$	$1.843 \times 10^{-2}$	$-2.025 \times 10^{-3}$	$3.247 \times 10^{-3}$
0.9000	0.2000	$8.715 \times 10^{-2}$	$1.791 \times 10^{-2}$	$-3.498 \times 10^{-3}$	$2.842 \times 10^{-3}$
0.9067	0.2000	$8.343 \times 10^{-2}$	$1.733 \times 10^{-2}$	$-3.933 \times 10^{-3}$	$2.651 \times 10^{-3}$
0.9133	0.2000	$7.829 \times 10^{-2}$	$1.643 \times 10^{-2}$	$-4.482 \times 10^{-3}$	$2.320 \times 10^{-3}$
0.9200	0.2000	$6.854 \times 10^{-2}$	$1.481 \times 10^{-2}$	$-5.377 \times 10^{-3}$	$1.882 \times 10^{-3}$
0.9267	0.2000	$6.723 \times 10^{-2}$	$1.456 \times 10^{-2}$	$-5.446 \times 10^{-3}$	$1.811 \times 10^{-3}$
0.9333	0.2000	$6.033 \times 10^{-2}$	$1.343 \times 10^{-2}$	$-5.963 \times 10^{-3}$	$1.551 \times 10^{-3}$
0.9400	0.2000	$5.905 \times 10^{-2}$	$1.330 \times 10^{-2}$	$-5.760 \times 10^{-3}$	$1.498 \times 10^{-3}$
0.9467	0.2000	$5.402 \times 10^{-2}$	$1.253 \times 10^{-2}$	$-5.945 \times 10^{-3}$	$1.320 \times 10^{-3}$
0.9533	0.2000	$5.572 \times 10^{-2}$	$1.268 \times 10^{-2}$	$-5.746 \times 10^{-3}$	$1.318 \times 10^{-3}$
0.9600	0.2000	$4.870 \times 10^{-2}$	$1.182 \times 10^{-2}$	$-5.889 \times 10^{-3}$	$1.151 \times 10^{-3}$
0.9667	0.2000	$4.654 \times 10^{-2}$	$1.152 \times 10^{-2}$	$-5.948 \times 10^{-3}$	$1.096 \times 10^{-3}$
0.9733	0.2000	$4.535 \times 10^{-2}$	$1.204 \times 10^{-2}$	$-5.971 \times 10^{-3}$	$1.123 \times 10^{-3}$
0.9800	0.2000	$4.158 \times 10^{-2}$	$1.213 \times 10^{-2}$	$-5.886 \times 10^{-3}$	$1.073 \times 10^{-3}$
0.9867	0.2000	$3.597 \times 10^{-2}$	$1.169 \times 10^{-2}$	$-5.712 \times 10^{-3}$	$9.496 \times 10^{-4}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.2000	$3.547 \times 10^{-2}$	$1.168 \times 10^{-2}$	$-5.630 \times 10^{-3}$	$9.452 \times 10^{-4}$
1.0000	0.2000	$3.102 \times 10^{-2}$	$1.141 \times 10^{-2}$	$-5.104 \times 10^{-3}$	$8.841 \times 10^{-4}$
0.4667	0.2067	$3.191 \times 10^{-2}$	$1.044 \times 10^{-2}$	$2.112 \times 10^{-4}$	$4.491 \times 10^{-3}$
0.4733	0.2067	$3.198 \times 10^{-2}$	$1.032 \times 10^{-2}$	$2.620 \times 10^{-4}$	$4.471 \times 10^{-3}$
0.4800	0.2067	$3.304 \times 10^{-2}$	$9.905 \times 10^{-3}$	$4.826 \times 10^{-4}$	$4.391 \times 10^{-3}$
0.4867	0.2067	$3.335 \times 10^{-2}$	$9.771 \times 10^{-3}$	$5.650 \times 10^{-4}$	$4.371 \times 10^{-3}$
0.4933	0.2067	$3.510 \times 10^{-2}$	$9.356 \times 10^{-3}$	$6.153 \times 10^{-4}$	$4.500 \times 10^{-3}$
0.5000	0.2067	$3.563 \times 10^{-2}$	$9.211 \times 10^{-3}$	$6.401 \times 10^{-4}$	$4.530 \times 10^{-3}$
0.5067	0.2067	$3.847 \times 10^{-2}$	$8.285 \times 10^{-3}$	$9.531 \times 10^{-4}$	$4.541 \times 10^{-3}$
0.5133	0.2067	$3.941 \times 10^{-2}$	$8.037 \times 10^{-3}$	$1.059 \times 10^{-3}$	$4.556 \times 10^{-3}$
0.5200	0.2067	$4.282 \times 10^{-2}$	$6.657 \times 10^{-3}$	$1.506 \times 10^{-3}$	$4.264 \times 10^{-3}$
0.5267	0.2067	$4.385 \times 10^{-2}$	$6.269 \times 10^{-3}$	$1.628 \times 10^{-3}$	$4.198 \times 10^{-3}$
0.5333	0.2067	$4.652 \times 10^{-2}$	$4.735 \times 10^{-3}$	$1.886 \times 10^{-3}$	$3.848 \times 10^{-3}$
0.5400	0.2067	$4.728 \times 10^{-2}$	$4.350 \times 10^{-3}$	$1.952 \times 10^{-3}$	$3.771 \times 10^{-3}$
0.5467	0.2067	$5.065 \times 10^{-2}$	$3.031 \times 10^{-3}$	$2.216 \times 10^{-3}$	$3.682 \times 10^{-3}$
0.5533	0.2067	$5.151 \times 10^{-2}$	$2.720 \times 10^{-3}$	$2.283 \times 10^{-3}$	$3.670 \times 10^{-3}$
0.5600	0.2067	$5.569 \times 10^{-2}$	$1.863 \times 10^{-3}$	$2.634 \times 10^{-3}$	$3.609 \times 10^{-3}$
0.5667	0.2067	$5.671 \times 10^{-2}$	$1.650 \times 10^{-3}$	$2.715 \times 10^{-3}$	$3.600 \times 10^{-3}$
0.5733	0.2067	$6.054 \times 10^{-2}$	$1.125 \times 10^{-3}$	$3.005 \times 10^{-3}$	$3.407 \times 10^{-3}$
0.5800	0.2067	$6.150 \times 10^{-2}$	$9.898 \times 10^{-4}$	$3.076 \times 10^{-3}$	$3.371 \times 10^{-3}$
0.5867	0.2067	$6.447 \times 10^{-2}$	$1.766 \times 10^{-4}$	$3.246 \times 10^{-3}$	$3.127 \times 10^{-3}$
0.5933	0.2067	$6.529 \times 10^{-2}$	$-2.146 \times 10^{-5}$	$3.280 \times 10^{-3}$	$3.077 \times 10^{-3}$
0.6000	0.2067	$6.811 \times 10^{-2}$	$-4.899 \times 10^{-4}$	$3.435 \times 10^{-3}$	$2.857 \times 10^{-3}$
0.6067	0.2067	$6.891 \times 10^{-2}$	$-6.220 \times 10^{-4}$	$3.460 \times 10^{-3}$	$2.811 \times 10^{-3}$
0.6133	0.2067	$7.127 \times 10^{-2}$	$-7.552 \times 10^{-4}$	$3.631 \times 10^{-3}$	$2.717 \times 10^{-3}$
0.6200	0.2067	$7.199 \times 10^{-2}$	$-8.224 \times 10^{-4}$	$3.665 \times 10^{-3}$	$2.698 \times 10^{-3}$
0.6267	0.2067	$7.412 \times 10^{-2}$	$-8.674 \times 10^{-4}$	$3.983 \times 10^{-3}$	$2.614 \times 10^{-3}$
0.6333	0.2067	$7.477 \times 10^{-2}$	$-9.050 \times 10^{-4}$	$4.066 \times 10^{-3}$	$2.596 \times 10^{-3}$
0.6400	0.2067	$7.612 \times 10^{-2}$	$-9.211 \times 10^{-4}$	$4.160 \times 10^{-3}$	$2.491 \times 10^{-3}$
0.6467	0.2067	$7.661 \times 10^{-2}$	$-9.535 \times 10^{-4}$	$4.200 \times 10^{-3}$	$2.466 \times 10^{-3}$
0.6533	0.2067	$7.712 \times 10^{-2}$	$-9.510 \times 10^{-4}$	$4.319 \times 10^{-3}$	$2.467 \times 10^{-3}$
0.6600	0.2067	$7.769 \times 10^{-2}$	$-1.015 \times 10^{-3}$	$4.425 \times 10^{-3}$	$2.483 \times 10^{-3}$
0.6667	0.2067	$7.763 \times 10^{-2}$	$-9.848 \times 10^{-4}$	$4.595 \times 10^{-3}$	$2.508 \times 10^{-3}$
0.6733	0.2067	$7.827 \times 10^{-2}$	$-1.277 \times 10^{-3}$	$5.047 \times 10^{-3}$	$2.618 \times 10^{-3}$
0.6800	0.2067	$7.824 \times 10^{-2}$	$-1.323 \times 10^{-3}$	$5.181 \times 10^{-3}$	$2.652 \times 10^{-3}$
0.6867	0.2067	$7.825 \times 10^{-2}$	$-1.600 \times 10^{-3}$	$5.869 \times 10^{-3}$	$2.847 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.2067	$7.827 \times 10^{-2}$	$-1.630 \times 10^{-3}$	$5.941 \times 10^{-3}$	$2.871 \times 10^{-3}$
0.7000	0.2067	$7.855 \times 10^{-2}$	$-1.951 \times 10^{-3}$	$7.068 \times 10^{-3}$	$3.264 \times 10^{-3}$
0.7067	0.2067	$7.849 \times 10^{-2}$	$-1.935 \times 10^{-3}$	$7.215 \times 10^{-3}$	$3.306 \times 10^{-3}$
0.7133	0.2067	$7.922 \times 10^{-2}$	$-2.548 \times 10^{-3}$	$8.511 \times 10^{-3}$	$3.726 \times 10^{-3}$
0.7200	0.2067	$7.916 \times 10^{-2}$	$-2.565 \times 10^{-3}$	$8.680 \times 10^{-3}$	$3.776 \times 10^{-3}$
0.7267	0.2067	$8.103 \times 10^{-2}$	$-3.156 \times 10^{-3}$	$1.035 \times 10^{-2}$	$4.273 \times 10^{-3}$
0.7333	0.2067	$8.115 \times 10^{-2}$	$-3.186 \times 10^{-3}$	$1.049 \times 10^{-2}$	$4.313 \times 10^{-3}$
0.7400	0.2067	$8.516 \times 10^{-2}$	$-3.611 \times 10^{-3}$	$1.176 \times 10^{-2}$	$4.603 \times 10^{-3}$
0.7467	0.2067	$8.816 \times 10^{-2}$	$-3.507 \times 10^{-3}$	$1.300 \times 10^{-2}$	$4.953 \times 10^{-3}$
0.7533	0.2067	$8.948 \times 10^{-2}$	$-3.474 \times 10^{-3}$	$1.350 \times 10^{-2}$	$5.095 \times 10^{-3}$
0.7600	0.2067	$9.751 \times 10^{-2}$	$-2.847 \times 10^{-3}$	$1.549 \times 10^{-2}$	$5.733 \times 10^{-3}$
0.7667	0.2067	$9.852 \times 10^{-2}$	$-2.525 \times 10^{-3}$	$1.572 \times 10^{-2}$	$5.793 \times 10^{-3}$
0.7733	0.2067	$1.010 \times 10^{-1}$	$-1.684 \times 10^{-3}$	$1.613 \times 10^{-2}$	$5.917 \times 10^{-3}$
0.7800	0.2067	$1.090 \times 10^{-1}$	$-6.003 \times 10^{-4}$	$1.720 \times 10^{-2}$	$6.431 \times 10^{-3}$
0.7867	0.2067	$1.094 \times 10^{-1}$	$1.447 \times 10^{-4}$	$1.731 \times 10^{-2}$	$6.367 \times 10^{-3}$
0.7933	0.2067	$1.192 \times 10^{-1}$	$2.238 \times 10^{-3}$	$1.778 \times 10^{-2}$	$6.870 \times 10^{-3}$
0.8000	0.2067	$1.204 \times 10^{-1}$	$3.149 \times 10^{-3}$	$1.772 \times 10^{-2}$	$6.872 \times 10^{-3}$
0.8067	0.2067	$1.273 \times 10^{-1}$	$6.043 \times 10^{-3}$	$1.759 \times 10^{-2}$	$7.112 \times 10^{-3}$
0.8133	0.2067	$1.288 \times 10^{-1}$	$7.788 \times 10^{-3}$	$1.681 \times 10^{-2}$	$6.932 \times 10^{-3}$
0.8200	0.2067	$1.306 \times 10^{-1}$	$8.871 \times 10^{-3}$	$1.641 \times 10^{-2}$	$6.895 \times 10^{-3}$
0.8267	0.2067	$1.317 \times 10^{-1}$	$1.171 \times 10^{-2}$	$1.408 \times 10^{-2}$	$6.533 \times 10^{-3}$
0.8333	0.2067	$1.310 \times 10^{-1}$	$1.237 \times 10^{-2}$	$1.338 \times 10^{-2}$	$6.410 \times 10^{-3}$
0.8400	0.2067	$1.298 \times 10^{-1}$	$1.484 \times 10^{-2}$	$1.097 \times 10^{-2}$	$6.030 \times 10^{-3}$
0.8467	0.2067	$1.282 \times 10^{-1}$	$1.535 \times 10^{-2}$	$9.911 \times 10^{-3}$	$5.831 \times 10^{-3}$
0.8533	0.2067	$1.252 \times 10^{-1}$	$1.689 \times 10^{-2}$	$7.315 \times 10^{-3}$	$5.367 \times 10^{-3}$
0.8600	0.2067	$1.227 \times 10^{-1}$	$1.709 \times 10^{-2}$	$6.365 \times 10^{-3}$	$5.101 \times 10^{-3}$
0.8667	0.2067	$1.170 \times 10^{-1}$	$1.782 \times 10^{-2}$	$3.837 \times 10^{-3}$	$4.522 \times 10^{-3}$
0.8733	0.2067	$1.129 \times 10^{-1}$	$1.825 \times 10^{-2}$	$2.511 \times 10^{-3}$	$4.186 \times 10^{-3}$
0.8800	0.2067	$1.104 \times 10^{-1}$	$1.825 \times 10^{-2}$	$1.940 \times 10^{-3}$	$4.050 \times 10^{-3}$
0.8867	0.2067	$1.023 \times 10^{-1}$	$1.852 \times 10^{-2}$	$-1.488 \times 10^{-4}$	$3.592 \times 10^{-3}$
0.8933	0.2067	$1.005 \times 10^{-1}$	$1.881 \times 10^{-2}$	$-4.844 \times 10^{-4}$	$3.458 \times 10^{-3}$
0.9000	0.2067	$9.222 \times 10^{-2}$	$1.825 \times 10^{-2}$	$-2.324 \times 10^{-3}$	$3.070 \times 10^{-3}$
0.9067	0.2067	$8.922 \times 10^{-2}$	$1.789 \times 10^{-2}$	$-2.776 \times 10^{-3}$	$2.896 \times 10^{-3}$
0.9133	0.2067	$8.132 \times 10^{-2}$	$1.688 \times 10^{-2}$	$-4.142 \times 10^{-3}$	$2.429 \times 10^{-3}$
0.9200	0.2067	$7.871 \times 10^{-2}$	$1.638 \times 10^{-2}$	$-4.288 \times 10^{-3}$	$2.290 \times 10^{-3}$
0.9267	0.2067	$7.434 \times 10^{-2}$	$1.568 \times 10^{-2}$	$-4.906 \times 10^{-3}$	$2.061 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.2067	$6.906 \times 10^{-2}$	$1.482 \times 10^{-2}$	$-5.082 \times 10^{-3}$	$1.841 \times 10^{-3}$
0.9400	0.2067	$6.677 \times 10^{-2}$	$1.447 \times 10^{-2}$	$-5.285 \times 10^{-3}$	$1.735 \times 10^{-3}$
0.9467	0.2067	$6.036 \times 10^{-2}$	$1.343 \times 10^{-2}$	$-5.503 \times 10^{-3}$	$1.489 \times 10^{-3}$
0.9533	0.2067	$5.672 \times 10^{-2}$	$1.280 \times 10^{-2}$	$-5.706 \times 10^{-3}$	$1.338 \times 10^{-3}$
0.9600	0.2067	$5.549 \times 10^{-2}$	$1.298 \times 10^{-2}$	$-5.663 \times 10^{-3}$	$1.335 \times 10^{-3}$
0.9667	0.2067	$5.385 \times 10^{-2}$	$1.304 \times 10^{-2}$	$-5.696 \times 10^{-3}$	$1.312 \times 10^{-3}$
0.9733	0.2067	$4.594 \times 10^{-2}$	$1.266 \times 10^{-2}$	$-6.076 \times 10^{-3}$	$1.183 \times 10^{-3}$
0.9800	0.2067	$4.550 \times 10^{-2}$	$1.266 \times 10^{-2}$	$-6.072 \times 10^{-3}$	$1.176 \times 10^{-3}$
0.9867	0.2067	$4.074 \times 10^{-2}$	$1.290 \times 10^{-2}$	$-5.659 \times 10^{-3}$	$1.095 \times 10^{-3}$
0.9933	0.2067	$3.750 \times 10^{-2}$	$1.318 \times 10^{-2}$	$-5.413 \times 10^{-3}$	$1.083 \times 10^{-3}$
1.0000	0.2067	$3.615 \times 10^{-2}$	$1.325 \times 10^{-2}$	$-5.348 \times 10^{-3}$	$1.079 \times 10^{-3}$
0.4667	0.2133	$3.159 \times 10^{-2}$	$1.074 \times 10^{-2}$	$-4.254 \times 10^{-5}$	$4.479 \times 10^{-3}$
0.4733	0.2133	$3.201 \times 10^{-2}$	$1.036 \times 10^{-2}$	$1.962 \times 10^{-4}$	$4.426 \times 10^{-3}$
0.4800	0.2133	$3.211 \times 10^{-2}$	$1.030 \times 10^{-2}$	$2.332 \times 10^{-4}$	$4.410 \times 10^{-3}$
0.4867	0.2133	$3.365 \times 10^{-2}$	$9.874 \times 10^{-3}$	$5.270 \times 10^{-4}$	$4.441 \times 10^{-3}$
0.4933	0.2133	$3.398 \times 10^{-2}$	$9.810 \times 10^{-3}$	$5.836 \times 10^{-4}$	$4.453 \times 10^{-3}$
0.5000	0.2133	$3.561 \times 10^{-2}$	$8.865 \times 10^{-3}$	$6.524 \times 10^{-4}$	$4.439 \times 10^{-3}$
0.5067	0.2133	$3.592 \times 10^{-2}$	$8.624 \times 10^{-3}$	$6.672 \times 10^{-4}$	$4.418 \times 10^{-3}$
0.5133	0.2133	$3.964 \times 10^{-2}$	$7.682 \times 10^{-3}$	$1.182 \times 10^{-3}$	$4.371 \times 10^{-3}$
0.5200	0.2133	$4.040 \times 10^{-2}$	$7.436 \times 10^{-3}$	$1.298 \times 10^{-3}$	$4.329 \times 10^{-3}$
0.5267	0.2133	$4.369 \times 10^{-2}$	$5.994 \times 10^{-3}$	$1.692 \times 10^{-3}$	$4.064 \times 10^{-3}$
0.5333	0.2133	$4.437 \times 10^{-2}$	$5.640 \times 10^{-3}$	$1.790 \times 10^{-3}$	$3.982 \times 10^{-3}$
0.5400	0.2133	$4.726 \times 10^{-2}$	$4.151 \times 10^{-3}$	$1.974 \times 10^{-3}$	$3.726 \times 10^{-3}$
0.5467	0.2133	$4.793 \times 10^{-2}$	$3.773 \times 10^{-3}$	$2.032 \times 10^{-3}$	$3.653 \times 10^{-3}$
0.5533	0.2133	$5.187 \times 10^{-2}$	$2.702 \times 10^{-3}$	$2.369 \times 10^{-3}$	$3.663 \times 10^{-3}$
0.5600	0.2133	$5.283 \times 10^{-2}$	$2.459 \times 10^{-3}$	$2.463 \times 10^{-3}$	$3.662 \times 10^{-3}$
0.5667	0.2133	$5.688 \times 10^{-2}$	$1.729 \times 10^{-3}$	$2.809 \times 10^{-3}$	$3.530 \times 10^{-3}$
0.5733	0.2133	$5.783 \times 10^{-2}$	$1.575 \times 10^{-3}$	$2.910 \times 10^{-3}$	$3.489 \times 10^{-3}$
0.5800	0.2133	$6.115 \times 10^{-2}$	$9.076 \times 10^{-4}$	$3.206 \times 10^{-3}$	$3.303 \times 10^{-3}$
0.5867	0.2133	$6.186 \times 10^{-2}$	$7.473 \times 10^{-4}$	$3.307 \times 10^{-3}$	$3.249 \times 10^{-3}$
0.5933	0.2133	$6.486 \times 10^{-2}$	$6.044 \times 10^{-5}$	$3.412 \times 10^{-3}$	$3.004 \times 10^{-3}$
0.6000	0.2133	$6.545 \times 10^{-2}$	$-7.228 \times 10^{-5}$	$3.465 \times 10^{-3}$	$2.938 \times 10^{-3}$
0.6067	0.2133	$6.806 \times 10^{-2}$	$-3.598 \times 10^{-4}$	$3.603 \times 10^{-3}$	$2.782 \times 10^{-3}$
0.6133	0.2133	$6.847 \times 10^{-2}$	$-3.769 \times 10^{-4}$	$3.661 \times 10^{-3}$	$2.743 \times 10^{-3}$
0.6200	0.2133	$7.117 \times 10^{-2}$	$-6.227 \times 10^{-4}$	$3.805 \times 10^{-3}$	$2.674 \times 10^{-3}$
0.6267	0.2133	$7.161 \times 10^{-2}$	$-6.380 \times 10^{-4}$	$3.861 \times 10^{-3}$	$2.654 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.2133	$7.385 \times 10^{-2}$	$-6.893 \times 10^{-4}$	$4.056 \times 10^{-3}$	$2.569 \times 10^{-3}$
0.6400	0.2133	$7.419 \times 10^{-2}$	$-6.649 \times 10^{-4}$	$4.100 \times 10^{-3}$	$2.545 \times 10^{-3}$
0.6467	0.2133	$7.547 \times 10^{-2}$	$-7.288 \times 10^{-4}$	$4.105 \times 10^{-3}$	$2.433 \times 10^{-3}$
0.6533	0.2133	$7.557 \times 10^{-2}$	$-7.002 \times 10^{-4}$	$4.091 \times 10^{-3}$	$2.402 \times 10^{-3}$
0.6600	0.2133	$7.678 \times 10^{-2}$	$-6.835 \times 10^{-4}$	$4.372 \times 10^{-3}$	$2.440 \times 10^{-3}$
0.6667	0.2133	$7.696 \times 10^{-2}$	$-6.232 \times 10^{-4}$	$4.429 \times 10^{-3}$	$2.441 \times 10^{-3}$
0.6733	0.2133	$7.746 \times 10^{-2}$	$-9.421 \times 10^{-4}$	$4.815 \times 10^{-3}$	$2.505 \times 10^{-3}$
0.6800	0.2133	$7.753 \times 10^{-2}$	$-9.961 \times 10^{-4}$	$4.889 \times 10^{-3}$	$2.514 \times 10^{-3}$
0.6867	0.2133	$7.806 \times 10^{-2}$	$-1.476 \times 10^{-3}$	$5.722 \times 10^{-3}$	$2.793 \times 10^{-3}$
0.6933	0.2133	$7.815 \times 10^{-2}$	$-1.573 \times 10^{-3}$	$5.940 \times 10^{-3}$	$2.867 \times 10^{-3}$
0.7000	0.2133	$7.830 \times 10^{-2}$	$-1.821 \times 10^{-3}$	$6.961 \times 10^{-3}$	$3.216 \times 10^{-3}$
0.7067	0.2133	$7.840 \times 10^{-2}$	$-1.901 \times 10^{-3}$	$7.191 \times 10^{-3}$	$3.295 \times 10^{-3}$
0.7133	0.2133	$7.881 \times 10^{-2}$	$-2.346 \times 10^{-3}$	$8.249 \times 10^{-3}$	$3.631 \times 10^{-3}$
0.7200	0.2133	$7.907 \times 10^{-2}$	$-2.523 \times 10^{-3}$	$8.684 \times 10^{-3}$	$3.769 \times 10^{-3}$
0.7267	0.2133	$7.986 \times 10^{-2}$	$-2.772 \times 10^{-3}$	$9.696 \times 10^{-3}$	$4.049 \times 10^{-3}$
0.7333	0.2133	$8.108 \times 10^{-2}$	$-3.014 \times 10^{-3}$	$1.046 \times 10^{-2}$	$4.263 \times 10^{-3}$
0.7400	0.2133	$8.225 \times 10^{-2}$	$-2.914 \times 10^{-3}$	$1.137 \times 10^{-2}$	$4.438 \times 10^{-3}$
0.7467	0.2133	$8.221 \times 10^{-2}$	$-2.811 \times 10^{-3}$	$1.151 \times 10^{-2}$	$4.461 \times 10^{-3}$
0.7533	0.2133	$8.716 \times 10^{-2}$	$-2.912 \times 10^{-3}$	$1.332 \times 10^{-2}$	$4.966 \times 10^{-3}$
0.7600	0.2133	$8.739 \times 10^{-2}$	$-2.857 \times 10^{-3}$	$1.353 \times 10^{-2}$	$5.012 \times 10^{-3}$
0.7667	0.2133	$9.585 \times 10^{-2}$	$-2.154 \times 10^{-3}$	$1.537 \times 10^{-2}$	$5.571 \times 10^{-3}$
0.7733	0.2133	$9.710 \times 10^{-2}$	$-2.042 \times 10^{-3}$	$1.564 \times 10^{-2}$	$5.651 \times 10^{-3}$
0.7800	0.2133	$1.004 \times 10^{-1}$	$-1.096 \times 10^{-3}$	$1.632 \times 10^{-2}$	$5.832 \times 10^{-3}$
0.7867	0.2133	$1.073 \times 10^{-1}$	$-1.761 \times 10^{-4}$	$1.723 \times 10^{-2}$	$6.235 \times 10^{-3}$
0.7933	0.2133	$1.094 \times 10^{-1}$	$6.942 \times 10^{-4}$	$1.731 \times 10^{-2}$	$6.311 \times 10^{-3}$
0.8000	0.2133	$1.144 \times 10^{-1}$	$2.402 \times 10^{-3}$	$1.764 \times 10^{-2}$	$6.502 \times 10^{-3}$
0.8067	0.2133	$1.184 \times 10^{-1}$	$4.141 \times 10^{-3}$	$1.752 \times 10^{-2}$	$6.603 \times 10^{-3}$
0.8133	0.2133	$1.201 \times 10^{-1}$	$5.148 \times 10^{-3}$	$1.748 \times 10^{-2}$	$6.604 \times 10^{-3}$
0.8200	0.2133	$1.243 \times 10^{-1}$	$7.666 \times 10^{-3}$	$1.669 \times 10^{-2}$	$6.571 \times 10^{-3}$
0.8267	0.2133	$1.255 \times 10^{-1}$	$8.583 \times 10^{-3}$	$1.610 \times 10^{-2}$	$6.514 \times 10^{-3}$
0.8333	0.2133	$1.270 \times 10^{-1}$	$1.081 \times 10^{-2}$	$1.467 \times 10^{-2}$	$6.218 \times 10^{-3}$
0.8400	0.2133	$1.277 \times 10^{-1}$	$1.242 \times 10^{-2}$	$1.316 \times 10^{-2}$	$6.114 \times 10^{-3}$
0.8467	0.2133	$1.264 \times 10^{-1}$	$1.379 \times 10^{-2}$	$1.176 \times 10^{-2}$	$5.828 \times 10^{-3}$
0.8533	0.2133	$1.260 \times 10^{-1}$	$1.412 \times 10^{-2}$	$1.133 \times 10^{-2}$	$5.731 \times 10^{-3}$
0.8600	0.2133	$1.230 \times 10^{-1}$	$1.641 \times 10^{-2}$	$7.707 \times 10^{-3}$	$5.060 \times 10^{-3}$
0.8667	0.2133	$1.226 \times 10^{-1}$	$1.657 \times 10^{-2}$	$7.430 \times 10^{-3}$	$4.998 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.2133	$1.152 \times 10^{-1}$	$1.765 \times 10^{-2}$	$4.063 \times 10^{-3}$	$4.376 \times 10^{-3}$
0.8800	0.2133	$1.121 \times 10^{-1}$	$1.797 \times 10^{-2}$	$3.031 \times 10^{-3}$	$4.110 \times 10^{-3}$
0.8867	0.2133	$1.114 \times 10^{-1}$	$1.810 \times 10^{-2}$	$2.754 \times 10^{-3}$	$4.041 \times 10^{-3}$
0.8933	0.2133	$1.020 \times 10^{-1}$	$1.889 \times 10^{-2}$	$-5.524 \times 10^{-5}$	$3.524 \times 10^{-3}$
0.9000	0.2133	$1.006 \times 10^{-1}$	$1.872 \times 10^{-2}$	$-2.199 \times 10^{-4}$	$3.454 \times 10^{-3}$
0.9067	0.2133	$9.755 \times 10^{-2}$	$1.862 \times 10^{-2}$	$-9.160 \times 10^{-4}$	$3.285 \times 10^{-3}$
0.9133	0.2133	$9.220 \times 10^{-2}$	$1.808 \times 10^{-2}$	$-1.797 \times 10^{-3}$	$2.957 \times 10^{-3}$
0.9200	0.2133	$9.080 \times 10^{-2}$	$1.801 \times 10^{-2}$	$-2.026 \times 10^{-3}$	$2.823 \times 10^{-3}$
0.9267	0.2133	$8.116 \times 10^{-2}$	$1.663 \times 10^{-2}$	$-3.435 \times 10^{-3}$	$2.348 \times 10^{-3}$
0.9333	0.2133	$8.055 \times 10^{-2}$	$1.655 \times 10^{-2}$	$-3.253 \times 10^{-3}$	$2.282 \times 10^{-3}$
0.9400	0.2133	$7.051 \times 10^{-2}$	$1.503 \times 10^{-2}$	$-4.626 \times 10^{-3}$	$1.874 \times 10^{-3}$
0.9467	0.2133	$7.104 \times 10^{-2}$	$1.514 \times 10^{-2}$	$-4.278 \times 10^{-3}$	$1.849 \times 10^{-3}$
0.9533	0.2133	$6.559 \times 10^{-2}$	$1.436 \times 10^{-2}$	$-4.776 \times 10^{-3}$	$1.657 \times 10^{-3}$
0.9600	0.2133	$5.938 \times 10^{-2}$	$1.388 \times 10^{-2}$	$-5.436 \times 10^{-3}$	$1.459 \times 10^{-3}$
0.9667	0.2133	$5.887 \times 10^{-2}$	$1.383 \times 10^{-2}$	$-5.527 \times 10^{-3}$	$1.439 \times 10^{-3}$
0.9733	0.2133	$5.395 \times 10^{-2}$	$1.423 \times 10^{-2}$	$-5.546 \times 10^{-3}$	$1.401 \times 10^{-3}$
0.9800	0.2133	$5.135 \times 10^{-2}$	$1.443 \times 10^{-2}$	$-5.533 \times 10^{-3}$	$1.368 \times 10^{-3}$
0.9867	0.2133	$4.517 \times 10^{-2}$	$1.454 \times 10^{-2}$	$-5.526 \times 10^{-3}$	$1.244 \times 10^{-3}$
0.9933	0.2133	$4.455 \times 10^{-2}$	$1.450 \times 10^{-2}$	$-5.474 \times 10^{-3}$	$1.236 \times 10^{-3}$
1.0000	0.2133	$3.923 \times 10^{-2}$	$1.414 \times 10^{-2}$	$-5.174 \times 10^{-3}$	$1.159 \times 10^{-3}$
0.4667	0.2200	$3.158 \times 10^{-2}$	$1.072 \times 10^{-2}$	$-4.248 \times 10^{-5}$	$4.469 \times 10^{-3}$
0.4733	0.2200	$3.191 \times 10^{-2}$	$1.036 \times 10^{-2}$	$1.467 \times 10^{-4}$	$4.408 \times 10^{-3}$
0.4800	0.2200	$3.215 \times 10^{-2}$	$1.029 \times 10^{-2}$	$2.271 \times 10^{-4}$	$4.412 \times 10^{-3}$
0.4867	0.2200	$3.340 \times 10^{-2}$	$9.947 \times 10^{-3}$	$4.341 \times 10^{-4}$	$4.449 \times 10^{-3}$
0.4933	0.2200	$3.400 \times 10^{-2}$	$9.775 \times 10^{-3}$	$5.658 \times 10^{-4}$	$4.455 \times 10^{-3}$
0.5000	0.2200	$3.520 \times 10^{-2}$	$9.069 \times 10^{-3}$	$6.159 \times 10^{-4}$	$4.446 \times 10^{-3}$
0.5067	0.2200	$3.606 \times 10^{-2}$	$8.615 \times 10^{-3}$	$7.065 \times 10^{-4}$	$4.424 \times 10^{-3}$
0.5133	0.2200	$3.874 \times 10^{-2}$	$7.909 \times 10^{-3}$	$1.113 \times 10^{-3}$	$4.399 \times 10^{-3}$
0.5200	0.2200	$4.039 \times 10^{-2}$	$7.428 \times 10^{-3}$	$1.306 \times 10^{-3}$	$4.334 \times 10^{-3}$
0.5267	0.2200	$4.275 \times 10^{-2}$	$6.427 \times 10^{-3}$	$1.603 \times 10^{-3}$	$4.166 \times 10^{-3}$
0.5333	0.2200	$4.427 \times 10^{-2}$	$5.659 \times 10^{-3}$	$1.761 \times 10^{-3}$	$3.997 \times 10^{-3}$
0.5400	0.2200	$4.637 \times 10^{-2}$	$4.507 \times 10^{-3}$	$1.868 \times 10^{-3}$	$3.808 \times 10^{-3}$
0.5467	0.2200	$4.786 \times 10^{-2}$	$3.809 \times 10^{-3}$	$2.021 \times 10^{-3}$	$3.667 \times 10^{-3}$
0.5533	0.2200	$5.095 \times 10^{-2}$	$2.940 \times 10^{-3}$	$2.293 \times 10^{-3}$	$3.668 \times 10^{-3}$
0.5600	0.2200	$5.272 \times 10^{-2}$	$2.494 \times 10^{-3}$	$2.457 \times 10^{-3}$	$3.658 \times 10^{-3}$
0.5667	0.2200	$5.594 \times 10^{-2}$	$1.932 \times 10^{-3}$	$2.745 \times 10^{-3}$	$3.549 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.2200	$5.766 \times 10^{-2}$	$1.599 \times 10^{-3}$	$2.898 \times 10^{-3}$	$3.488 \times 10^{-3}$
0.5800	0.2200	$6.013 \times 10^{-2}$	$1.065 \times 10^{-3}$	$3.132 \times 10^{-3}$	$3.331 \times 10^{-3}$
0.5867	0.2200	$6.170 \times 10^{-2}$	$7.629 \times 10^{-4}$	$3.296 \times 10^{-3}$	$3.247 \times 10^{-3}$
0.5933	0.2200	$6.395 \times 10^{-2}$	$2.232 \times 10^{-4}$	$3.394 \times 10^{-3}$	$3.039 \times 10^{-3}$
0.6000	0.2200	$6.530 \times 10^{-2}$	$-3.936 \times 10^{-5}$	$3.471 \times 10^{-3}$	$2.939 \times 10^{-3}$
0.6067	0.2200	$6.717 \times 10^{-2}$	$-2.230 \times 10^{-4}$	$3.608 \times 10^{-3}$	$2.804 \times 10^{-3}$
0.6133	0.2200	$6.835 \times 10^{-2}$	$-3.566 \times 10^{-4}$	$3.674 \times 10^{-3}$	$2.745 \times 10^{-3}$
0.6200	0.2200	$7.029 \times 10^{-2}$	$-5.198 \times 10^{-4}$	$3.822 \times 10^{-3}$	$2.690 \times 10^{-3}$
0.6267	0.2200	$7.146 \times 10^{-2}$	$-6.051 \times 10^{-4}$	$3.867 \times 10^{-3}$	$2.655 \times 10^{-3}$
0.6333	0.2200	$7.302 \times 10^{-2}$	$-5.783 \times 10^{-4}$	$4.025 \times 10^{-3}$	$2.583 \times 10^{-3}$
0.6400	0.2200	$7.401 \times 10^{-2}$	$-6.383 \times 10^{-4}$	$4.089 \times 10^{-3}$	$2.541 \times 10^{-3}$
0.6467	0.2200	$7.474 \times 10^{-2}$	$-6.343 \times 10^{-4}$	$4.076 \times 10^{-3}$	$2.437 \times 10^{-3}$
0.6533	0.2200	$7.544 \times 10^{-2}$	$-6.714 \times 10^{-4}$	$4.097 \times 10^{-3}$	$2.403 \times 10^{-3}$
0.6600	0.2200	$7.606 \times 10^{-2}$	$-5.802 \times 10^{-4}$	$4.309 \times 10^{-3}$	$2.422 \times 10^{-3}$
0.6667	0.2200	$7.682 \times 10^{-2}$	$-6.092 \times 10^{-4}$	$4.437 \times 10^{-3}$	$2.440 \times 10^{-3}$
0.6733	0.2200	$7.706 \times 10^{-2}$	$-8.006 \times 10^{-4}$	$4.727 \times 10^{-3}$	$2.482 \times 10^{-3}$
0.6800	0.2200	$7.738 \times 10^{-2}$	$-9.435 \times 10^{-4}$	$4.889 \times 10^{-3}$	$2.508 \times 10^{-3}$
0.6867	0.2200	$7.694 \times 10^{-2}$	$-8.845 \times 10^{-4}$	$5.180 \times 10^{-3}$	$2.568 \times 10^{-3}$
0.6933	0.2200	$7.694 \times 10^{-2}$	$-1.029 \times 10^{-3}$	$5.730 \times 10^{-3}$	$2.754 \times 10^{-3}$
0.7000	0.2200	$7.687 \times 10^{-2}$	$-1.066 \times 10^{-3}$	$5.997 \times 10^{-3}$	$2.841 \times 10^{-3}$
0.7067	0.2200	$7.724 \times 10^{-2}$	$-1.510 \times 10^{-3}$	$6.903 \times 10^{-3}$	$3.157 \times 10^{-3}$
0.7133	0.2200	$7.717 \times 10^{-2}$	$-1.599 \times 10^{-3}$	$7.192 \times 10^{-3}$	$3.249 \times 10^{-3}$
0.7200	0.2200	$7.780 \times 10^{-2}$	$-2.096 \times 10^{-3}$	$8.505 \times 10^{-3}$	$3.653 \times 10^{-3}$
0.7267	0.2200	$7.771 \times 10^{-2}$	$-2.177 \times 10^{-3}$	$8.883 \times 10^{-3}$	$3.761 \times 10^{-3}$
0.7333	0.2200	$7.857 \times 10^{-2}$	$-2.332 \times 10^{-3}$	$9.467 \times 10^{-3}$	$3.910 \times 10^{-3}$
0.7400	0.2200	$8.098 \times 10^{-2}$	$-2.657 \times 10^{-3}$	$1.109 \times 10^{-2}$	$4.324 \times 10^{-3}$
0.7467	0.2200	$8.168 \times 10^{-2}$	$-2.725 \times 10^{-3}$	$1.141 \times 10^{-2}$	$4.419 \times 10^{-3}$
0.7533	0.2200	$8.417 \times 10^{-2}$	$-2.635 \times 10^{-3}$	$1.265 \times 10^{-2}$	$4.716 \times 10^{-3}$
0.7600	0.2200	$8.663 \times 10^{-2}$	$-2.699 \times 10^{-3}$	$1.340 \times 10^{-2}$	$4.945 \times 10^{-3}$
0.7667	0.2200	$8.799 \times 10^{-2}$	$-2.125 \times 10^{-3}$	$1.416 \times 10^{-2}$	$5.060 \times 10^{-3}$
0.7733	0.2200	$9.273 \times 10^{-2}$	$-1.823 \times 10^{-3}$	$1.514 \times 10^{-2}$	$5.361 \times 10^{-3}$
0.7800	0.2200	$9.491 \times 10^{-2}$	$-1.482 \times 10^{-3}$	$1.585 \times 10^{-2}$	$5.480 \times 10^{-3}$
0.7867	0.2200	$9.838 \times 10^{-2}$	$-8.659 \times 10^{-4}$	$1.631 \times 10^{-2}$	$5.692 \times 10^{-3}$
0.7933	0.2200	$1.009 \times 10^{-1}$	$-4.280 \times 10^{-5}$	$1.685 \times 10^{-2}$	$5.835 \times 10^{-3}$
0.8000	0.2200	$1.084 \times 10^{-1}$	$1.634 \times 10^{-3}$	$1.728 \times 10^{-2}$	$6.172 \times 10^{-3}$
0.8067	0.2200	$1.093 \times 10^{-1}$	$2.454 \times 10^{-3}$	$1.729 \times 10^{-2}$	$6.145 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.2200	$1.168 \times 10^{-1}$	$4.685 \times 10^{-3}$	$1.738 \times 10^{-2}$	$6.425 \times 10^{-3}$
0.8200	0.2200	$1.201 \times 10^{-1}$	$6.482 \times 10^{-3}$	$1.692 \times 10^{-2}$	$6.427 \times 10^{-3}$
0.8267	0.2200	$1.212 \times 10^{-1}$	$7.471 \times 10^{-3}$	$1.650 \times 10^{-2}$	$6.343 \times 10^{-3}$
0.8333	0.2200	$1.256 \times 10^{-1}$	$1.024 \times 10^{-2}$	$1.500 \times 10^{-2}$	$6.204 \times 10^{-3}$
0.8400	0.2200	$1.233 \times 10^{-1}$	$1.023 \times 10^{-2}$	$1.512 \times 10^{-2}$	$6.084 \times 10^{-3}$
0.8467	0.2200	$1.251 \times 10^{-1}$	$1.289 \times 10^{-2}$	$1.261 \times 10^{-2}$	$5.837 \times 10^{-3}$
0.8533	0.2200	$1.257 \times 10^{-1}$	$1.362 \times 10^{-2}$	$1.193 \times 10^{-2}$	$5.769 \times 10^{-3}$
0.8600	0.2200	$1.229 \times 10^{-1}$	$1.406 \times 10^{-2}$	$1.091 \times 10^{-2}$	$5.399 \times 10^{-3}$
0.8667	0.2200	$1.213 \times 10^{-1}$	$1.547 \times 10^{-2}$	$8.795 \times 10^{-3}$	$5.028 \times 10^{-3}$
0.8733	0.2200	$1.201 \times 10^{-1}$	$1.628 \times 10^{-2}$	$7.615 \times 10^{-3}$	$4.759 \times 10^{-3}$
0.8800	0.2200	$1.156 \times 10^{-1}$	$1.703 \times 10^{-2}$	$5.475 \times 10^{-3}$	$4.404 \times 10^{-3}$
0.8867	0.2200	$1.120 \times 10^{-1}$	$1.776 \times 10^{-2}$	$3.564 \times 10^{-3}$	$4.107 \times 10^{-3}$
0.8933	0.2200	$1.095 \times 10^{-1}$	$1.797 \times 10^{-2}$	$3.292 \times 10^{-3}$	$3.939 \times 10^{-3}$
0.9000	0.2200	$1.093 \times 10^{-1}$	$1.800 \times 10^{-2}$	$3.290 \times 10^{-3}$	$3.924 \times 10^{-3}$
0.9067	0.2200	$1.012 \times 10^{-1}$	$1.853 \times 10^{-2}$	$6.978 \times 10^{-4}$	$3.501 \times 10^{-3}$
0.9133	0.2200	$9.751 \times 10^{-2}$	$1.839 \times 10^{-2}$	$-1.631 \times 10^{-5}$	$3.260 \times 10^{-3}$
0.9200	0.2200	$9.182 \times 10^{-2}$	$1.810 \times 10^{-2}$	$-1.720 \times 10^{-3}$	$2.876 \times 10^{-3}$
0.9267	0.2200	$8.600 \times 10^{-2}$	$1.727 \times 10^{-2}$	$-2.240 \times 10^{-3}$	$2.543 \times 10^{-3}$
0.9333	0.2200	$8.373 \times 10^{-2}$	$1.703 \times 10^{-2}$	$-2.731 \times 10^{-3}$	$2.404 \times 10^{-3}$
0.9400	0.2200	$7.863 \times 10^{-2}$	$1.621 \times 10^{-2}$	$-3.143 \times 10^{-3}$	$2.178 \times 10^{-3}$
0.9467	0.2200	$7.391 \times 10^{-2}$	$1.559 \times 10^{-2}$	$-3.931 \times 10^{-3}$	$1.934 \times 10^{-3}$
0.9533	0.2200	$7.317 \times 10^{-2}$	$1.552 \times 10^{-2}$	$-3.931 \times 10^{-3}$	$1.916 \times 10^{-3}$
0.9600	0.2200	$6.640 \times 10^{-2}$	$1.519 \times 10^{-2}$	$-4.475 \times 10^{-3}$	$1.716 \times 10^{-3}$
0.9667	0.2200	$6.591 \times 10^{-2}$	$1.549 \times 10^{-2}$	$-4.517 \times 10^{-3}$	$1.712 \times 10^{-3}$
0.9733	0.2200	$5.672 \times 10^{-2}$	$1.522 \times 10^{-2}$	$-5.291 \times 10^{-3}$	$1.510 \times 10^{-3}$
0.9800	0.2200	$5.590 \times 10^{-2}$	$1.524 \times 10^{-2}$	$-5.324 \times 10^{-3}$	$1.496 \times 10^{-3}$
0.9867	0.2200	$5.038 \times 10^{-2}$	$1.544 \times 10^{-2}$	$-5.082 \times 10^{-3}$	$1.415 \times 10^{-3}$
0.9933	0.2200	$4.669 \times 10^{-2}$	$1.595 \times 10^{-2}$	$-4.828 \times 10^{-3}$	$1.351 \times 10^{-3}$
1.0000	0.2200	$4.567 \times 10^{-2}$	$1.623 \times 10^{-2}$	$-4.720 \times 10^{-3}$	$1.335 \times 10^{-3}$
0.4667	0.2267	$3.154 \times 10^{-2}$	$1.037 \times 10^{-2}$	$2.718 \times 10^{-5}$	$4.368 \times 10^{-3}$
0.4733	0.2267	$3.157 \times 10^{-2}$	$1.028 \times 10^{-2}$	$4.010 \times 10^{-5}$	$4.348 \times 10^{-3}$
0.4800	0.2267	$3.270 \times 10^{-2}$	$1.011 \times 10^{-2}$	$2.147 \times 10^{-4}$	$4.453 \times 10^{-3}$
0.4867	0.2267	$3.289 \times 10^{-2}$	$1.007 \times 10^{-2}$	$2.269 \times 10^{-4}$	$4.470 \times 10^{-3}$
0.4933	0.2267	$3.421 \times 10^{-2}$	$9.594 \times 10^{-3}$	$4.867 \times 10^{-4}$	$4.473 \times 10^{-3}$
0.5000	0.2267	$3.442 \times 10^{-2}$	$9.513 \times 10^{-3}$	$5.094 \times 10^{-4}$	$4.476 \times 10^{-3}$
0.5067	0.2267	$3.675 \times 10^{-2}$	$8.510 \times 10^{-3}$	$9.273 \times 10^{-4}$	$4.481 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.2267	$3.717 \times 10^{-2}$	$8.330 \times 10^{-3}$	$9.971 \times 10^{-4}$	$4.488 \times 10^{-3}$
0.5200	0.2267	$4.057 \times 10^{-2}$	$7.459 \times 10^{-3}$	$1.385 \times 10^{-3}$	$4.401 \times 10^{-3}$
0.5267	0.2267	$4.117 \times 10^{-2}$	$7.310 \times 10^{-3}$	$1.453 \times 10^{-3}$	$4.396 \times 10^{-3}$
0.5333	0.2267	$4.387 \times 10^{-2}$	$5.672 \times 10^{-3}$	$1.583 \times 10^{-3}$	$4.075 \times 10^{-3}$
0.5400	0.2267	$4.432 \times 10^{-2}$	$5.385 \times 10^{-3}$	$1.587 \times 10^{-3}$	$4.028 \times 10^{-3}$
0.5467	0.2267	$4.779 \times 10^{-2}$	$3.808 \times 10^{-3}$	$1.990 \times 10^{-3}$	$3.718 \times 10^{-3}$
0.5533	0.2267	$4.835 \times 10^{-2}$	$3.529 \times 10^{-3}$	$2.050 \times 10^{-3}$	$3.668 \times 10^{-3}$
0.5600	0.2267	$5.269 \times 10^{-2}$	$2.612 \times 10^{-3}$	$2.473 \times 10^{-3}$	$3.634 \times 10^{-3}$
0.5667	0.2267	$5.339 \times 10^{-2}$	$2.466 \times 10^{-3}$	$2.535 \times 10^{-3}$	$3.630 \times 10^{-3}$
0.5733	0.2267	$5.690 \times 10^{-2}$	$1.643 \times 10^{-3}$	$2.806 \times 10^{-3}$	$3.466 \times 10^{-3}$
0.5800	0.2267	$5.741 \times 10^{-2}$	$1.516 \times 10^{-3}$	$2.835 \times 10^{-3}$	$3.439 \times 10^{-3}$
0.5867	0.2267	$6.117 \times 10^{-2}$	$7.261 \times 10^{-4}$	$3.230 \times 10^{-3}$	$3.201 \times 10^{-3}$
0.5933	0.2267	$6.173 \times 10^{-2}$	$5.964 \times 10^{-4}$	$3.281 \times 10^{-3}$	$3.159 \times 10^{-3}$
0.6000	0.2267	$6.479 \times 10^{-2}$	$1.111 \times 10^{-4}$	$3.523 \times 10^{-3}$	$2.906 \times 10^{-3}$
0.6067	0.2267	$6.526 \times 10^{-2}$	$3.633 \times 10^{-5}$	$3.555 \times 10^{-3}$	$2.860 \times 10^{-3}$
0.6133	0.2267	$6.796 \times 10^{-2}$	$-3.100 \times 10^{-4}$	$3.790 \times 10^{-3}$	$2.757 \times 10^{-3}$
0.6200	0.2267	$6.838 \times 10^{-2}$	$-3.651 \times 10^{-4}$	$3.832 \times 10^{-3}$	$2.740 \times 10^{-3}$
0.6267	0.2267	$7.081 \times 10^{-2}$	$-3.653 \times 10^{-4}$	$3.921 \times 10^{-3}$	$2.652 \times 10^{-3}$
0.6333	0.2267	$7.117 \times 10^{-2}$	$-3.478 \times 10^{-4}$	$3.938 \times 10^{-3}$	$2.639 \times 10^{-3}$
0.6400	0.2267	$7.303 \times 10^{-2}$	$-4.862 \times 10^{-4}$	$4.012 \times 10^{-3}$	$2.482 \times 10^{-3}$
0.6467	0.2267	$7.327 \times 10^{-2}$	$-4.985 \times 10^{-4}$	$4.017 \times 10^{-3}$	$2.451 \times 10^{-3}$
0.6533	0.2267	$7.467 \times 10^{-2}$	$-4.612 \times 10^{-4}$	$4.179 \times 10^{-3}$	$2.403 \times 10^{-3}$
0.6600	0.2267	$7.486 \times 10^{-2}$	$-4.469 \times 10^{-4}$	$4.202 \times 10^{-3}$	$2.392 \times 10^{-3}$
0.6667	0.2267	$7.593 \times 10^{-2}$	$-4.383 \times 10^{-4}$	$4.462 \times 10^{-3}$	$2.434 \times 10^{-3}$
0.6733	0.2267	$7.607 \times 10^{-2}$	$-4.276 \times 10^{-4}$	$4.500 \times 10^{-3}$	$2.440 \times 10^{-3}$
0.6800	0.2267	$7.653 \times 10^{-2}$	$-6.981 \times 10^{-4}$	$5.006 \times 10^{-3}$	$2.499 \times 10^{-3}$
0.6867	0.2267	$7.657 \times 10^{-2}$	$-7.287 \times 10^{-4}$	$5.083 \times 10^{-3}$	$2.507 \times 10^{-3}$
0.6933	0.2267	$7.657 \times 10^{-2}$	$-8.665 \times 10^{-4}$	$5.681 \times 10^{-3}$	$2.724 \times 10^{-3}$
0.7000	0.2267	$7.659 \times 10^{-2}$	$-8.959 \times 10^{-4}$	$5.774 \times 10^{-3}$	$2.758 \times 10^{-3}$
0.7067	0.2267	$7.683 \times 10^{-2}$	$-1.384 \times 10^{-3}$	$6.817 \times 10^{-3}$	$3.117 \times 10^{-3}$
0.7133	0.2267	$7.693 \times 10^{-2}$	$-1.493 \times 10^{-3}$	$7.018 \times 10^{-3}$	$3.191 \times 10^{-3}$
0.7200	0.2267	$7.709 \times 10^{-2}$	$-1.758 \times 10^{-3}$	$7.877 \times 10^{-3}$	$3.435 \times 10^{-3}$
0.7267	0.2267	$7.762 \times 10^{-2}$	$-2.129 \times 10^{-3}$	$8.830 \times 10^{-3}$	$3.736 \times 10^{-3}$
0.7333	0.2267	$7.777 \times 10^{-2}$	$-2.105 \times 10^{-3}$	$9.482 \times 10^{-3}$	$3.846 \times 10^{-3}$
0.7400	0.2267	$7.785 \times 10^{-2}$	$-2.134 \times 10^{-3}$	$1.029 \times 10^{-2}$	$3.997 \times 10^{-3}$
0.7467	0.2267	$7.897 \times 10^{-2}$	$-2.218 \times 10^{-3}$	$1.086 \times 10^{-2}$	$4.155 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.2267	$8.052 \times 10^{-2}$	$-2.309 \times 10^{-3}$	$1.199 \times 10^{-2}$	$4.436 \times 10^{-3}$
0.7600	0.2267	$8.194 \times 10^{-2}$	$-2.243 \times 10^{-3}$	$1.247 \times 10^{-2}$	$4.563 \times 10^{-3}$
0.7667	0.2267	$8.516 \times 10^{-2}$	$-2.045 \times 10^{-3}$	$1.384 \times 10^{-2}$	$4.888 \times 10^{-3}$
0.7733	0.2267	$8.638 \times 10^{-2}$	$-1.943 \times 10^{-3}$	$1.408 \times 10^{-2}$	$4.962 \times 10^{-3}$
0.7800	0.2267	$9.255 \times 10^{-2}$	$-1.429 \times 10^{-3}$	$1.549 \times 10^{-2}$	$5.355 \times 10^{-3}$
0.7867	0.2267	$9.289 \times 10^{-2}$	$-9.939 \times 10^{-4}$	$1.566 \times 10^{-2}$	$5.395 \times 10^{-3}$
0.7933	0.2267	$1.001 \times 10^{-1}$	$-8.277 \times 10^{-5}$	$1.676 \times 10^{-2}$	$5.788 \times 10^{-3}$
0.8000	0.2267	$1.029 \times 10^{-1}$	$1.125 \times 10^{-3}$	$1.692 \times 10^{-2}$	$5.863 \times 10^{-3}$
0.8067	0.2267	$1.060 \times 10^{-1}$	$1.804 \times 10^{-3}$	$1.721 \times 10^{-2}$	$5.985 \times 10^{-3}$
0.8133	0.2267	$1.111 \times 10^{-1}$	$3.850 \times 10^{-3}$	$1.738 \times 10^{-2}$	$6.145 \times 10^{-3}$
0.8200	0.2267	$1.118 \times 10^{-1}$	$4.127 \times 10^{-3}$	$1.736 \times 10^{-2}$	$6.158 \times 10^{-3}$
0.8267	0.2267	$1.170 \times 10^{-1}$	$6.403 \times 10^{-3}$	$1.686 \times 10^{-2}$	$6.179 \times 10^{-3}$
0.8333	0.2267	$1.183 \times 10^{-1}$	$7.647 \times 10^{-3}$	$1.635 \times 10^{-2}$	$6.112 \times 10^{-3}$
0.8400	0.2267	$1.217 \times 10^{-1}$	$9.695 \times 10^{-3}$	$1.565 \times 10^{-2}$	$6.063 \times 10^{-3}$
0.8467	0.2267	$1.192 \times 10^{-1}$	$9.953 \times 10^{-3}$	$1.494 \times 10^{-2}$	$5.834 \times 10^{-3}$
0.8533	0.2267	$1.198 \times 10^{-1}$	$1.071 \times 10^{-2}$	$1.425 \times 10^{-2}$	$5.753 \times 10^{-3}$
0.8600	0.2267	$1.228 \times 10^{-1}$	$1.355 \times 10^{-2}$	$1.162 \times 10^{-2}$	$5.458 \times 10^{-3}$
0.8667	0.2267	$1.214 \times 10^{-1}$	$1.389 \times 10^{-2}$	$1.111 \times 10^{-2}$	$5.297 \times 10^{-3}$
0.8733	0.2267	$1.193 \times 10^{-1}$	$1.511 \times 10^{-2}$	$9.345 \times 10^{-3}$	$4.908 \times 10^{-3}$
0.8800	0.2267	$1.168 \times 10^{-1}$	$1.592 \times 10^{-2}$	$7.888 \times 10^{-3}$	$4.535 \times 10^{-3}$
0.8867	0.2267	$1.166 \times 10^{-1}$	$1.598 \times 10^{-2}$	$7.798 \times 10^{-3}$	$4.498 \times 10^{-3}$
0.8933	0.2267	$1.115 \times 10^{-1}$	$1.751 \times 10^{-2}$	$4.670 \times 10^{-3}$	$4.108 \times 10^{-3}$
0.9000	0.2267	$1.100 \times 10^{-1}$	$1.787 \times 10^{-2}$	$3.936 \times 10^{-3}$	$4.003 \times 10^{-3}$
0.9067	0.2267	$1.063 \times 10^{-1}$	$1.873 \times 10^{-2}$	$2.985 \times 10^{-3}$	$3.838 \times 10^{-3}$
0.9133	0.2267	$1.059 \times 10^{-1}$	$1.877 \times 10^{-2}$	$2.866 \times 10^{-3}$	$3.813 \times 10^{-3}$
0.9200	0.2267	$1.000 \times 10^{-1}$	$1.854 \times 10^{-2}$	$1.824 \times 10^{-3}$	$3.335 \times 10^{-3}$
0.9267	0.2267	$9.902 \times 10^{-2}$	$1.847 \times 10^{-2}$	$1.597 \times 10^{-3}$	$3.265 \times 10^{-3}$
0.9333	0.2267	$8.973 \times 10^{-2}$	$1.750 \times 10^{-2}$	$-5.804 \times 10^{-4}$	$2.729 \times 10^{-3}$
0.9400	0.2267	$8.870 \times 10^{-2}$	$1.732 \times 10^{-2}$	$-4.220 \times 10^{-4}$	$2.658 \times 10^{-3}$
0.9467	0.2267	$7.857 \times 10^{-2}$	$1.616 \times 10^{-2}$	$-2.726 \times 10^{-3}$	$2.165 \times 10^{-3}$
0.9533	0.2267	$7.736 \times 10^{-2}$	$1.624 \times 10^{-2}$	$-2.773 \times 10^{-3}$	$2.112 \times 10^{-3}$
0.9600	0.2267	$7.218 \times 10^{-2}$	$1.615 \times 10^{-2}$	$-3.513 \times 10^{-3}$	$1.930 \times 10^{-3}$
0.9667	0.2267	$6.912 \times 10^{-2}$	$1.599 \times 10^{-2}$	$-4.161 \times 10^{-3}$	$1.811 \times 10^{-3}$
0.9733	0.2267	$6.591 \times 10^{-2}$	$1.608 \times 10^{-2}$	$-4.186 \times 10^{-3}$	$1.776 \times 10^{-3}$
0.9800	0.2267	$5.935 \times 10^{-2}$	$1.678 \times 10^{-2}$	$-4.322 \times 10^{-3}$	$1.701 \times 10^{-3}$
0.9867	0.2267	$5.893 \times 10^{-2}$	$1.725 \times 10^{-2}$	$-4.213 \times 10^{-3}$	$1.726 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.2267	$5.578 \times 10^{-2}$	$1.713 \times 10^{-2}$	$-4.210 \times 10^{-3}$	$1.643 \times 10^{-3}$
1.0000	0.2267	$4.870 \times 10^{-2}$	$1.697 \times 10^{-2}$	$-4.272 \times 10^{-3}$	$1.454 \times 10^{-3}$
0.4667	0.2333	$3.145 \times 10^{-2}$	$1.053 \times 10^{-2}$	$1.082 \times 10^{-4}$	$4.369 \times 10^{-3}$
0.4733	0.2333	$3.184 \times 10^{-2}$	$1.030 \times 10^{-2}$	$1.306 \times 10^{-4}$	$4.381 \times 10^{-3}$
0.4800	0.2333	$3.255 \times 10^{-2}$	$1.017 \times 10^{-2}$	$2.771 \times 10^{-4}$	$4.443 \times 10^{-3}$
0.4867	0.2333	$3.304 \times 10^{-2}$	$1.001 \times 10^{-2}$	$3.356 \times 10^{-4}$	$4.462 \times 10^{-3}$
0.4933	0.2333	$3.369 \times 10^{-2}$	$9.776 \times 10^{-3}$	$5.324 \times 10^{-4}$	$4.462 \times 10^{-3}$
0.5000	0.2333	$3.457 \times 10^{-2}$	$9.424 \times 10^{-3}$	$6.713 \times 10^{-4}$	$4.470 \times 10^{-3}$
0.5067	0.2333	$3.550 \times 10^{-2}$	$9.040 \times 10^{-3}$	$9.407 \times 10^{-4}$	$4.471 \times 10^{-3}$
0.5133	0.2333	$3.729 \times 10^{-2}$	$8.423 \times 10^{-3}$	$1.081 \times 10^{-3}$	$4.475 \times 10^{-3}$
0.5200	0.2333	$3.862 \times 10^{-2}$	$8.110 \times 10^{-3}$	$1.265 \times 10^{-3}$	$4.449 \times 10^{-3}$
0.5267	0.2333	$4.086 \times 10^{-2}$	$7.309 \times 10^{-3}$	$1.450 \times 10^{-3}$	$4.368 \times 10^{-3}$
0.5333	0.2333	$4.194 \times 10^{-2}$	$6.722 \times 10^{-3}$	$1.535 \times 10^{-3}$	$4.259 \times 10^{-3}$
0.5400	0.2333	$4.439 \times 10^{-2}$	$5.457 \times 10^{-3}$	$1.639 \times 10^{-3}$	$4.022 \times 10^{-3}$
0.5467	0.2333	$4.603 \times 10^{-2}$	$4.740 \times 10^{-3}$	$1.805 \times 10^{-3}$	$3.869 \times 10^{-3}$
0.5533	0.2333	$4.844 \times 10^{-2}$	$3.666 \times 10^{-3}$	$2.107 \times 10^{-3}$	$3.682 \times 10^{-3}$
0.5600	0.2333	$5.051 \times 10^{-2}$	$3.168 \times 10^{-3}$	$2.375 \times 10^{-3}$	$3.619 \times 10^{-3}$
0.5667	0.2333	$5.320 \times 10^{-2}$	$2.482 \times 10^{-3}$	$2.565 \times 10^{-3}$	$3.601 \times 10^{-3}$
0.5733	0.2333	$5.495 \times 10^{-2}$	$2.031 \times 10^{-3}$	$2.736 \times 10^{-3}$	$3.520 \times 10^{-3}$
0.5800	0.2333	$5.735 \times 10^{-2}$	$1.499 \times 10^{-3}$	$2.908 \times 10^{-3}$	$3.426 \times 10^{-3}$
0.5867	0.2333	$5.917 \times 10^{-2}$	$1.085 \times 10^{-3}$	$3.150 \times 10^{-3}$	$3.310 \times 10^{-3}$
0.5933	0.2333	$6.153 \times 10^{-2}$	$6.684 \times 10^{-4}$	$3.357 \times 10^{-3}$	$3.160 \times 10^{-3}$
0.6000	0.2333	$6.299 \times 10^{-2}$	$4.601 \times 10^{-4}$	$3.572 \times 10^{-3}$	$3.040 \times 10^{-3}$
0.6067	0.2333	$6.500 \times 10^{-2}$	$9.914 \times 10^{-5}$	$3.641 \times 10^{-3}$	$2.883 \times 10^{-3}$
0.6133	0.2333	$6.615 \times 10^{-2}$	$-5.188 \times 10^{-5}$	$3.807 \times 10^{-3}$	$2.823 \times 10^{-3}$
0.6200	0.2333	$6.804 \times 10^{-2}$	$-2.802 \times 10^{-4}$	$3.846 \times 10^{-3}$	$2.740 \times 10^{-3}$
0.6267	0.2333	$6.904 \times 10^{-2}$	$-2.803 \times 10^{-4}$	$3.897 \times 10^{-3}$	$2.688 \times 10^{-3}$
0.6333	0.2333	$7.081 \times 10^{-2}$	$-3.209 \times 10^{-4}$	$3.943 \times 10^{-3}$	$2.630 \times 10^{-3}$
0.6400	0.2333	$7.157 \times 10^{-2}$	$-3.418 \times 10^{-4}$	$3.988 \times 10^{-3}$	$2.557 \times 10^{-3}$
0.6467	0.2333	$7.295 \times 10^{-2}$	$-4.028 \times 10^{-4}$	$4.074 \times 10^{-3}$	$2.467 \times 10^{-3}$
0.6533	0.2333	$7.347 \times 10^{-2}$	$-3.148 \times 10^{-4}$	$4.199 \times 10^{-3}$	$2.439 \times 10^{-3}$
0.6600	0.2333	$7.448 \times 10^{-2}$	$-3.366 \times 10^{-4}$	$4.266 \times 10^{-3}$	$2.404 \times 10^{-3}$
0.6667	0.2333	$7.474 \times 10^{-2}$	$-2.434 \times 10^{-4}$	$4.419 \times 10^{-3}$	$2.413 \times 10^{-3}$
0.6733	0.2333	$7.564 \times 10^{-2}$	$-3.679 \times 10^{-4}$	$4.544 \times 10^{-3}$	$2.423 \times 10^{-3}$
0.6800	0.2333	$7.558 \times 10^{-2}$	$-3.926 \times 10^{-4}$	$4.749 \times 10^{-3}$	$2.423 \times 10^{-3}$
0.6867	0.2333	$7.596 \times 10^{-2}$	$-5.040 \times 10^{-4}$	$5.032 \times 10^{-3}$	$2.488 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.2333	$7.567 \times 10^{-2}$	$-4.154 \times 10^{-4}$	$5.210 \times 10^{-3}$	$2.535 \times 10^{-3}$
0.7000	0.2333	$7.591 \times 10^{-2}$	$-6.730 \times 10^{-4}$	$5.709 \times 10^{-3}$	$2.698 \times 10^{-3}$
0.7067	0.2333	$7.568 \times 10^{-2}$	$-7.253 \times 10^{-4}$	$5.995 \times 10^{-3}$	$2.775 \times 10^{-3}$
0.7133	0.2333	$7.598 \times 10^{-2}$	$-1.188 \times 10^{-3}$	$6.795 \times 10^{-3}$	$3.048 \times 10^{-3}$
0.7200	0.2333	$7.565 \times 10^{-2}$	$-1.223 \times 10^{-3}$	$7.022 \times 10^{-3}$	$3.093 \times 10^{-3}$
0.7267	0.2333	$7.585 \times 10^{-2}$	$-1.421 \times 10^{-3}$	$8.012 \times 10^{-3}$	$3.371 \times 10^{-3}$
0.7333	0.2333	$7.587 \times 10^{-2}$	$-1.472 \times 10^{-3}$	$8.570 \times 10^{-3}$	$3.504 \times 10^{-3}$
0.7400	0.2333	$7.763 \times 10^{-2}$	$-2.060 \times 10^{-3}$	$1.015 \times 10^{-2}$	$3.954 \times 10^{-3}$
0.7467	0.2333	$7.789 \times 10^{-2}$	$-1.977 \times 10^{-3}$	$1.045 \times 10^{-2}$	$4.015 \times 10^{-3}$
0.7533	0.2333	$7.971 \times 10^{-2}$	$-2.125 \times 10^{-3}$	$1.164 \times 10^{-2}$	$4.327 \times 10^{-3}$
0.7600	0.2333	$7.949 \times 10^{-2}$	$-1.791 \times 10^{-3}$	$1.191 \times 10^{-2}$	$4.362 \times 10^{-3}$
0.7667	0.2333	$8.148 \times 10^{-2}$	$-1.767 \times 10^{-3}$	$1.271 \times 10^{-2}$	$4.563 \times 10^{-3}$
0.7733	0.2333	$8.387 \times 10^{-2}$	$-1.613 \times 10^{-3}$	$1.360 \times 10^{-2}$	$4.781 \times 10^{-3}$
0.7800	0.2333	$8.760 \times 10^{-2}$	$-1.343 \times 10^{-3}$	$1.486 \times 10^{-2}$	$5.104 \times 10^{-3}$
0.7867	0.2333	$8.788 \times 10^{-2}$	$-1.338 \times 10^{-3}$	$1.498 \times 10^{-2}$	$5.132 \times 10^{-3}$
0.7933	0.2333	$9.290 \times 10^{-2}$	$-1.321 \times 10^{-4}$	$1.583 \times 10^{-2}$	$5.374 \times 10^{-3}$
0.8000	0.2333	$9.328 \times 10^{-2}$	$7.590 \times 10^{-6}$	$1.593 \times 10^{-2}$	$5.391 \times 10^{-3}$
0.8067	0.2333	$9.871 \times 10^{-2}$	$1.543 \times 10^{-3}$	$1.674 \times 10^{-2}$	$5.610 \times 10^{-3}$
0.8133	0.2333	$1.002 \times 10^{-1}$	$1.992 \times 10^{-3}$	$1.686 \times 10^{-2}$	$5.663 \times 10^{-3}$
0.8200	0.2333	$1.046 \times 10^{-1}$	$3.494 \times 10^{-3}$	$1.720 \times 10^{-2}$	$5.802 \times 10^{-3}$
0.8267	0.2333	$1.089 \times 10^{-1}$	$4.803 \times 10^{-3}$	$1.702 \times 10^{-2}$	$5.913 \times 10^{-3}$
0.8333	0.2333	$1.107 \times 10^{-1}$	$6.116 \times 10^{-3}$	$1.677 \times 10^{-2}$	$5.886 \times 10^{-3}$
0.8400	0.2333	$1.137 \times 10^{-1}$	$7.320 \times 10^{-3}$	$1.633 \times 10^{-2}$	$5.910 \times 10^{-3}$
0.8467	0.2333	$1.181 \times 10^{-1}$	$9.658 \times 10^{-3}$	$1.512 \times 10^{-2}$	$5.822 \times 10^{-3}$
0.8533	0.2333	$1.176 \times 10^{-1}$	$1.012 \times 10^{-2}$	$1.485 \times 10^{-2}$	$5.736 \times 10^{-3}$
0.8600	0.2333	$1.165 \times 10^{-1}$	$1.066 \times 10^{-2}$	$1.464 \times 10^{-2}$	$5.612 \times 10^{-3}$
0.8667	0.2333	$1.186 \times 10^{-1}$	$1.319 \times 10^{-2}$	$1.224 \times 10^{-2}$	$5.214 \times 10^{-3}$
0.8733	0.2333	$1.188 \times 10^{-1}$	$1.348 \times 10^{-2}$	$1.197 \times 10^{-2}$	$5.153 \times 10^{-3}$
0.8800	0.2333	$1.167 \times 10^{-1}$	$1.503 \times 10^{-2}$	$9.477 \times 10^{-3}$	$4.745 \times 10^{-3}$
0.8867	0.2333	$1.160 \times 10^{-1}$	$1.572 \times 10^{-2}$	$8.390 \times 10^{-3}$	$4.568 \times 10^{-3}$
0.8933	0.2333	$1.138 \times 10^{-1}$	$1.661 \times 10^{-2}$	$7.656 \times 10^{-3}$	$4.476 \times 10^{-3}$
0.9000	0.2333	$1.141 \times 10^{-1}$	$1.676 \times 10^{-2}$	$7.764 \times 10^{-3}$	$4.497 \times 10^{-3}$
0.9067	0.2333	$1.100 \times 10^{-1}$	$1.765 \times 10^{-2}$	$5.771 \times 10^{-3}$	$4.173 \times 10^{-3}$
0.9133	0.2333	$1.065 \times 10^{-1}$	$1.818 \times 10^{-2}$	$4.552 \times 10^{-3}$	$3.904 \times 10^{-3}$
0.9200	0.2333	$1.010 \times 10^{-1}$	$1.849 \times 10^{-2}$	$2.375 \times 10^{-3}$	$3.407 \times 10^{-3}$
0.9267	0.2333	$9.996 \times 10^{-2}$	$1.847 \times 10^{-2}$	$2.064 \times 10^{-3}$	$3.326 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.2333	$9.300 \times 10^{-2}$	$1.772 \times 10^{-2}$	$8.125 \times 10^{-4}$	$2.882 \times 10^{-3}$
0.9400	0.2333	$9.231 \times 10^{-2}$	$1.769 \times 10^{-2}$	$5.936 \times 10^{-4}$	$2.830 \times 10^{-3}$
0.9467	0.2333	$8.871 \times 10^{-2}$	$1.731 \times 10^{-2}$	$1.938 \times 10^{-5}$	$2.664 \times 10^{-3}$
0.9533	0.2333	$8.331 \times 10^{-2}$	$1.700 \times 10^{-2}$	$-1.298 \times 10^{-3}$	$2.346 \times 10^{-3}$
0.9600	0.2333	$8.291 \times 10^{-2}$	$1.700 \times 10^{-2}$	$-1.393 \times 10^{-3}$	$2.328 \times 10^{-3}$
0.9667	0.2333	$7.450 \times 10^{-2}$	$1.711 \times 10^{-2}$	$-2.603 \times 10^{-3}$	$2.106 \times 10^{-3}$
0.9733	0.2333	$7.473 \times 10^{-2}$	$1.786 \times 10^{-2}$	$-2.250 \times 10^{-3}$	$2.194 \times 10^{-3}$
0.9800	0.2333	$6.740 \times 10^{-2}$	$1.778 \times 10^{-2}$	$-2.921 \times 10^{-3}$	$2.000 \times 10^{-3}$
0.9867	0.2333	$6.123 \times 10^{-2}$	$1.781 \times 10^{-2}$	$-3.540 \times 10^{-3}$	$1.834 \times 10^{-3}$
0.9933	0.2333	$5.657 \times 10^{-2}$	$1.852 \times 10^{-2}$	$-3.216 \times 10^{-3}$	$1.748 \times 10^{-3}$
1.0000	0.2333	$5.485 \times 10^{-2}$	$1.869 \times 10^{-2}$	$-3.236 \times 10^{-3}$	$1.708 \times 10^{-3}$
0.4667	0.2400	$3.133 \times 10^{-2}$	$1.064 \times 10^{-2}$	$1.774 \times 10^{-4}$	$4.355 \times 10^{-3}$
0.4733	0.2400	$3.228 \times 10^{-2}$	$1.028 \times 10^{-2}$	$2.880 \times 10^{-4}$	$4.431 \times 10^{-3}$
0.4800	0.2400	$3.250 \times 10^{-2}$	$1.022 \times 10^{-2}$	$3.288 \times 10^{-4}$	$4.447 \times 10^{-3}$
0.4867	0.2400	$3.321 \times 10^{-2}$	$9.941 \times 10^{-3}$	$5.002 \times 10^{-4}$	$4.450 \times 10^{-3}$
0.4933	0.2400	$3.340 \times 10^{-2}$	$9.890 \times 10^{-3}$	$5.546 \times 10^{-4}$	$4.455 \times 10^{-3}$
0.5000	0.2400	$3.460 \times 10^{-2}$	$9.372 \times 10^{-3}$	$8.850 \times 10^{-4}$	$4.461 \times 10^{-3}$
0.5067	0.2400	$3.489 \times 10^{-2}$	$9.276 \times 10^{-3}$	$9.660 \times 10^{-4}$	$4.466 \times 10^{-3}$
0.5133	0.2400	$3.726 \times 10^{-2}$	$8.563 \times 10^{-3}$	$1.175 \times 10^{-3}$	$4.474 \times 10^{-3}$
0.5200	0.2400	$3.781 \times 10^{-2}$	$8.416 \times 10^{-3}$	$1.223 \times 10^{-3}$	$4.475 \times 10^{-3}$
0.5267	0.2400	$4.042 \times 10^{-2}$	$7.422 \times 10^{-3}$	$1.462 \times 10^{-3}$	$4.366 \times 10^{-3}$
0.5333	0.2400	$4.103 \times 10^{-2}$	$7.206 \times 10^{-3}$	$1.515 \times 10^{-3}$	$4.346 \times 10^{-3}$
0.5400	0.2400	$4.438 \times 10^{-2}$	$5.560 \times 10^{-3}$	$1.664 \times 10^{-3}$	$4.015 \times 10^{-3}$
0.5467	0.2400	$4.513 \times 10^{-2}$	$5.203 \times 10^{-3}$	$1.694 \times 10^{-3}$	$3.943 \times 10^{-3}$
0.5533	0.2400	$4.846 \times 10^{-2}$	$3.801 \times 10^{-3}$	$2.232 \times 10^{-3}$	$3.657 \times 10^{-3}$
0.5600	0.2400	$4.917 \times 10^{-2}$	$3.514 \times 10^{-3}$	$2.336 \times 10^{-3}$	$3.600 \times 10^{-3}$
0.5667	0.2400	$5.291 \times 10^{-2}$	$2.485 \times 10^{-3}$	$2.627 \times 10^{-3}$	$3.570 \times 10^{-3}$
0.5733	0.2400	$5.367 \times 10^{-2}$	$2.278 \times 10^{-3}$	$2.688 \times 10^{-3}$	$3.560 \times 10^{-3}$
0.5800	0.2400	$5.717 \times 10^{-2}$	$1.460 \times 10^{-3}$	$3.029 \times 10^{-3}$	$3.413 \times 10^{-3}$
0.5867	0.2400	$5.788 \times 10^{-2}$	$1.288 \times 10^{-3}$	$3.097 \times 10^{-3}$	$3.386 \times 10^{-3}$
0.5933	0.2400	$6.118 \times 10^{-2}$	$7.992 \times 10^{-4}$	$3.537 \times 10^{-3}$	$3.165 \times 10^{-3}$
0.6000	0.2400	$6.186 \times 10^{-2}$	$6.901 \times 10^{-4}$	$3.625 \times 10^{-3}$	$3.126 \times 10^{-3}$
0.6067	0.2400	$6.450 \times 10^{-2}$	$1.967 \times 10^{-4}$	$3.795 \times 10^{-3}$	$2.903 \times 10^{-3}$
0.6133	0.2400	$6.507 \times 10^{-2}$	$8.814 \times 10^{-5}$	$3.836 \times 10^{-3}$	$2.863 \times 10^{-3}$
0.6200	0.2400	$6.744 \times 10^{-2}$	$-1.699 \times 10^{-4}$	$3.875 \times 10^{-3}$	$2.736 \times 10^{-3}$
0.6267	0.2400	$6.791 \times 10^{-2}$	$-2.355 \times 10^{-4}$	$3.880 \times 10^{-3}$	$2.712 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.2400	$7.019 \times 10^{-2}$	$-2.435 \times 10^{-4}$	$3.953 \times 10^{-3}$	$2.623 \times 10^{-3}$
0.6400	0.2400	$7.063 \times 10^{-2}$	$-2.588 \times 10^{-4}$	$3.955 \times 10^{-3}$	$2.607 \times 10^{-3}$
0.6467	0.2400	$7.241 \times 10^{-2}$	$-2.331 \times 10^{-4}$	$4.187 \times 10^{-3}$	$2.482 \times 10^{-3}$
0.6533	0.2400	$7.278 \times 10^{-2}$	$-2.322 \times 10^{-4}$	$4.215 \times 10^{-3}$	$2.459 \times 10^{-3}$
0.6600	0.2400	$7.376 \times 10^{-2}$	$-1.056 \times 10^{-4}$	$4.373 \times 10^{-3}$	$2.413 \times 10^{-3}$
0.6667	0.2400	$7.398 \times 10^{-2}$	$-9.450 \times 10^{-5}$	$4.394 \times 10^{-3}$	$2.403 \times 10^{-3}$
0.6733	0.2400	$7.491 \times 10^{-2}$	$-2.235 \times 10^{-4}$	$4.589 \times 10^{-3}$	$2.382 \times 10^{-3}$
0.6800	0.2400	$7.512 \times 10^{-2}$	$-2.559 \times 10^{-4}$	$4.628 \times 10^{-3}$	$2.375 \times 10^{-3}$
0.6867	0.2400	$7.523 \times 10^{-2}$	$-2.099 \times 10^{-4}$	$4.955 \times 10^{-3}$	$2.447 \times 10^{-3}$
0.6933	0.2400	$7.530 \times 10^{-2}$	$-2.120 \times 10^{-4}$	$5.014 \times 10^{-3}$	$2.460 \times 10^{-3}$
0.7000	0.2400	$7.527 \times 10^{-2}$	$-4.442 \times 10^{-4}$	$5.618 \times 10^{-3}$	$2.631 \times 10^{-3}$
0.7067	0.2400	$7.531 \times 10^{-2}$	$-5.032 \times 10^{-4}$	$5.723 \times 10^{-3}$	$2.664 \times 10^{-3}$
0.7133	0.2400	$7.537 \times 10^{-2}$	$-1.016 \times 10^{-3}$	$6.670 \times 10^{-3}$	$2.968 \times 10^{-3}$
0.7200	0.2400	$7.547 \times 10^{-2}$	$-1.166 \times 10^{-3}$	$6.889 \times 10^{-3}$	$3.045 \times 10^{-3}$
0.7267	0.2400	$7.525 \times 10^{-2}$	$-1.215 \times 10^{-3}$	$7.856 \times 10^{-3}$	$3.290 \times 10^{-3}$
0.7333	0.2400	$7.534 \times 10^{-2}$	$-1.306 \times 10^{-3}$	$8.216 \times 10^{-3}$	$3.395 \times 10^{-3}$
0.7400	0.2400	$7.563 \times 10^{-2}$	$-1.353 \times 10^{-3}$	$8.850 \times 10^{-3}$	$3.542 \times 10^{-3}$
0.7467	0.2400	$7.555 \times 10^{-2}$	$-1.332 \times 10^{-3}$	$9.681 \times 10^{-3}$	$3.730 \times 10^{-3}$
0.7533	0.2400	$7.600 \times 10^{-2}$	$-1.386 \times 10^{-3}$	$1.001 \times 10^{-2}$	$3.820 \times 10^{-3}$
0.7600	0.2400	$7.782 \times 10^{-2}$	$-1.502 \times 10^{-3}$	$1.157 \times 10^{-2}$	$4.239 \times 10^{-3}$
0.7667	0.2400	$7.794 \times 10^{-2}$	$-1.476 \times 10^{-3}$	$1.165 \times 10^{-2}$	$4.254 \times 10^{-3}$
0.7733	0.2400	$7.995 \times 10^{-2}$	$-1.262 \times 10^{-3}$	$1.292 \times 10^{-2}$	$4.528 \times 10^{-3}$
0.7800	0.2400	$8.140 \times 10^{-2}$	$-1.200 \times 10^{-3}$	$1.335 \times 10^{-2}$	$4.646 \times 10^{-3}$
0.7867	0.2400	$8.504 \times 10^{-2}$	$-7.498 \times 10^{-4}$	$1.444 \times 10^{-2}$	$4.931 \times 10^{-3}$
0.7933	0.2400	$8.800 \times 10^{-2}$	$-2.754 \times 10^{-4}$	$1.504 \times 10^{-2}$	$5.098 \times 10^{-3}$
0.8000	0.2400	$9.178 \times 10^{-2}$	$1.798 \times 10^{-4}$	$1.580 \times 10^{-2}$	$5.313 \times 10^{-3}$
0.8067	0.2400	$9.658 \times 10^{-2}$	$1.402 \times 10^{-3}$	$1.657 \times 10^{-2}$	$5.513 \times 10^{-3}$
0.8133	0.2400	$9.787 \times 10^{-2}$	$1.789 \times 10^{-3}$	$1.676 \times 10^{-2}$	$5.569 \times 10^{-3}$
0.8200	0.2400	$1.032 \times 10^{-1}$	$3.328 \times 10^{-3}$	$1.719 \times 10^{-2}$	$5.747 \times 10^{-3}$
0.8267	0.2400	$1.037 \times 10^{-1}$	$3.829 \times 10^{-3}$	$1.712 \times 10^{-2}$	$5.765 \times 10^{-3}$
0.8333	0.2400	$1.095 \times 10^{-1}$	$5.886 \times 10^{-3}$	$1.681 \times 10^{-2}$	$5.863 \times 10^{-3}$
0.8400	0.2400	$1.086 \times 10^{-1}$	$6.462 \times 10^{-3}$	$1.677 \times 10^{-2}$	$5.832 \times 10^{-3}$
0.8467	0.2400	$1.068 \times 10^{-1}$	$6.717 \times 10^{-3}$	$1.689 \times 10^{-2}$	$5.799 \times 10^{-3}$
0.8533	0.2400	$1.134 \times 10^{-1}$	$9.433 \times 10^{-3}$	$1.552 \times 10^{-2}$	$5.680 \times 10^{-3}$
0.8600	0.2400	$1.157 \times 10^{-1}$	$1.033 \times 10^{-2}$	$1.499 \times 10^{-2}$	$5.633 \times 10^{-3}$
0.8667	0.2400	$1.144 \times 10^{-1}$	$1.139 \times 10^{-2}$	$1.435 \times 10^{-2}$	$5.441 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.2400	$1.154 \times 10^{-1}$	$1.257 \times 10^{-2}$	$1.319 \times 10^{-2}$	$5.254 \times 10^{-3}$
0.8800	0.2400	$1.140 \times 10^{-1}$	$1.361 \times 10^{-2}$	$1.258 \times 10^{-2}$	$5.069 \times 10^{-3}$
0.8867	0.2400	$1.138 \times 10^{-1}$	$1.378 \times 10^{-2}$	$1.237 \times 10^{-2}$	$5.032 \times 10^{-3}$
0.8933	0.2400	$1.135 \times 10^{-1}$	$1.581 \times 10^{-2}$	$9.437 \times 10^{-3}$	$4.660 \times 10^{-3}$
0.9000	0.2400	$1.137 \times 10^{-1}$	$1.656 \times 10^{-2}$	$8.237 \times 10^{-3}$	$4.530 \times 10^{-3}$
0.9067	0.2400	$1.107 \times 10^{-1}$	$1.711 \times 10^{-2}$	$7.968 \times 10^{-3}$	$4.336 \times 10^{-3}$
0.9133	0.2400	$1.098 \times 10^{-1}$	$1.742 \times 10^{-2}$	$7.987 \times 10^{-3}$	$4.262 \times 10^{-3}$
0.9200	0.2400	$1.066 \times 10^{-1}$	$1.761 \times 10^{-2}$	$6.459 \times 10^{-3}$	$3.953 \times 10^{-3}$
0.9267	0.2400	$1.030 \times 10^{-1}$	$1.769 \times 10^{-2}$	$5.241 \times 10^{-3}$	$3.607 \times 10^{-3}$
0.9333	0.2400	$9.771 \times 10^{-2}$	$1.764 \times 10^{-2}$	$3.262 \times 10^{-3}$	$3.232 \times 10^{-3}$
0.9400	0.2400	$9.441 \times 10^{-2}$	$1.760 \times 10^{-2}$	$2.021 \times 10^{-3}$	$3.005 \times 10^{-3}$
0.9467	0.2400	$9.219 \times 10^{-2}$	$1.752 \times 10^{-2}$	$1.810 \times 10^{-3}$	$2.891 \times 10^{-3}$
0.9533	0.2400	$8.594 \times 10^{-2}$	$1.721 \times 10^{-2}$	$-2.654 \times 10^{-4}$	$2.510 \times 10^{-3}$
0.9600	0.2400	$8.379 \times 10^{-2}$	$1.718 \times 10^{-2}$	$-9.323 \times 10^{-4}$	$2.394 \times 10^{-3}$
0.9667	0.2400	$7.962 \times 10^{-2}$	$1.794 \times 10^{-2}$	$-9.366 \times 10^{-4}$	$2.379 \times 10^{-3}$
0.9733	0.2400	$7.541 \times 10^{-2}$	$1.798 \times 10^{-2}$	$-2.098 \times 10^{-3}$	$2.225 \times 10^{-3}$
0.9800	0.2400	$7.363 \times 10^{-2}$	$1.895 \times 10^{-2}$	$-1.329 \times 10^{-3}$	$2.292 \times 10^{-3}$
0.9867	0.2400	$6.704 \times 10^{-2}$	$1.938 \times 10^{-2}$	$-1.958 \times 10^{-3}$	$2.109 \times 10^{-3}$
0.9933	0.2400	$6.573 \times 10^{-2}$	$1.932 \times 10^{-2}$	$-1.997 \times 10^{-3}$	$2.067 \times 10^{-3}$
1.0000	0.2400	$5.744 \times 10^{-2}$	$1.907 \times 10^{-2}$	$-2.460 \times 10^{-3}$	$1.798 \times 10^{-3}$
0.4667	0.2467	$3.125 \times 10^{-2}$	$1.063 \times 10^{-2}$	$1.109 \times 10^{-4}$	$4.372 \times 10^{-3}$
0.4733	0.2467	$3.146 \times 10^{-2}$	$1.057 \times 10^{-2}$	$8.947 \times 10^{-5}$	$4.394 \times 10^{-3}$
0.4800	0.2467	$3.208 \times 10^{-2}$	$1.021 \times 10^{-2}$	$2.259 \times 10^{-4}$	$4.409 \times 10^{-3}$
0.4867	0.2467	$3.214 \times 10^{-2}$	$1.007 \times 10^{-2}$	$2.420 \times 10^{-4}$	$4.400 \times 10^{-3}$
0.4933	0.2467	$3.311 \times 10^{-2}$	$9.751 \times 10^{-3}$	$5.821 \times 10^{-4}$	$4.416 \times 10^{-3}$
0.5000	0.2467	$3.335 \times 10^{-2}$	$9.585 \times 10^{-3}$	$7.080 \times 10^{-4}$	$4.409 \times 10^{-3}$
0.5067	0.2467	$3.487 \times 10^{-2}$	$9.230 \times 10^{-3}$	$9.928 \times 10^{-4}$	$4.476 \times 10^{-3}$
0.5133	0.2467	$3.533 \times 10^{-2}$	$9.090 \times 10^{-3}$	$1.092 \times 10^{-3}$	$4.496 \times 10^{-3}$
0.5200	0.2467	$3.747 \times 10^{-2}$	$8.416 \times 10^{-3}$	$1.255 \times 10^{-3}$	$4.442 \times 10^{-3}$
0.5267	0.2467	$3.803 \times 10^{-2}$	$8.194 \times 10^{-3}$	$1.323 \times 10^{-3}$	$4.415 \times 10^{-3}$
0.5333	0.2467	$4.116 \times 10^{-2}$	$7.082 \times 10^{-3}$	$1.504 \times 10^{-3}$	$4.305 \times 10^{-3}$
0.5400	0.2467	$4.215 \times 10^{-2}$	$6.694 \times 10^{-3}$	$1.564 \times 10^{-3}$	$4.248 \times 10^{-3}$
0.5467	0.2467	$4.487 \times 10^{-2}$	$5.281 \times 10^{-3}$	$1.853 \times 10^{-3}$	$3.899 \times 10^{-3}$
0.5533	0.2467	$4.568 \times 10^{-2}$	$4.841 \times 10^{-3}$	$1.992 \times 10^{-3}$	$3.774 \times 10^{-3}$
0.5600	0.2467	$4.879 \times 10^{-2}$	$3.601 \times 10^{-3}$	$2.324 \times 10^{-3}$	$3.652 \times 10^{-3}$
0.5667	0.2467	$4.978 \times 10^{-2}$	$3.185 \times 10^{-3}$	$2.434 \times 10^{-3}$	$3.622 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5733	0.2467	$5.316 \times 10^{-2}$	$2.364 \times 10^{-3}$	$2.724 \times 10^{-3}$	$3.541 \times 10^{-3}$
0.5800	0.2467	$5.420 \times 10^{-2}$	$2.096 \times 10^{-3}$	$2.845 \times 10^{-3}$	$3.504 \times 10^{-3}$
0.5867	0.2467	$5.739 \times 10^{-2}$	$1.515 \times 10^{-3}$	$3.199 \times 10^{-3}$	$3.364 \times 10^{-3}$
0.5933	0.2467	$5.833 \times 10^{-2}$	$1.391 \times 10^{-3}$	$3.369 \times 10^{-3}$	$3.300 \times 10^{-3}$
0.6000	0.2467	$6.111 \times 10^{-2}$	$8.248 \times 10^{-4}$	$3.622 \times 10^{-3}$	$3.093 \times 10^{-3}$
0.6067	0.2467	$6.182 \times 10^{-2}$	$6.878 \times 10^{-4}$	$3.707 \times 10^{-3}$	$3.009 \times 10^{-3}$
0.6133	0.2467	$6.439 \times 10^{-2}$	$2.955 \times 10^{-4}$	$3.841 \times 10^{-3}$	$2.873 \times 10^{-3}$
0.6200	0.2467	$6.505 \times 10^{-2}$	$2.373 \times 10^{-4}$	$3.884 \times 10^{-3}$	$2.824 \times 10^{-3}$
0.6267	0.2467	$6.741 \times 10^{-2}$	$-2.895 \times 10^{-5}$	$3.956 \times 10^{-3}$	$2.717 \times 10^{-3}$
0.6333	0.2467	$6.804 \times 10^{-2}$	$-4.197 \times 10^{-5}$	$4.007 \times 10^{-3}$	$2.679 \times 10^{-3}$
0.6400	0.2467	$6.992 \times 10^{-2}$	$-1.568 \times 10^{-4}$	$4.144 \times 10^{-3}$	$2.608 \times 10^{-3}$
0.6467	0.2467	$7.032 \times 10^{-2}$	$-1.496 \times 10^{-4}$	$4.263 \times 10^{-3}$	$2.580 \times 10^{-3}$
0.6533	0.2467	$7.199 \times 10^{-2}$	$2.659 \times 10^{-5}$	$4.367 \times 10^{-3}$	$2.488 \times 10^{-3}$
0.6600	0.2467	$7.229 \times 10^{-2}$	$1.579 \times 10^{-4}$	$4.457 \times 10^{-3}$	$2.469 \times 10^{-3}$
0.6667	0.2467	$7.331 \times 10^{-2}$	$2.089 \times 10^{-5}$	$4.405 \times 10^{-3}$	$2.401 \times 10^{-3}$
0.6733	0.2467	$7.342 \times 10^{-2}$	$2.741 \times 10^{-5}$	$4.416 \times 10^{-3}$	$2.379 \times 10^{-3}$
0.6800	0.2467	$7.425 \times 10^{-2}$	$8.992 \times 10^{-6}$	$4.597 \times 10^{-3}$	$2.364 \times 10^{-3}$
0.6867	0.2467	$7.419 \times 10^{-2}$	$1.014 \times 10^{-4}$	$4.665 \times 10^{-3}$	$2.359 \times 10^{-3}$
0.6933	0.2467	$7.453 \times 10^{-2}$	$1.306 \times 10^{-5}$	$5.060 \times 10^{-3}$	$2.430 \times 10^{-3}$
0.7000	0.2467	$7.436 \times 10^{-2}$	$5.636 \times 10^{-5}$	$5.233 \times 10^{-3}$	$2.451 \times 10^{-3}$
0.7067	0.2467	$7.444 \times 10^{-2}$	$-2.975 \times 10^{-4}$	$5.776 \times 10^{-3}$	$2.610 \times 10^{-3}$
0.7133	0.2467	$7.416 \times 10^{-2}$	$-3.441 \times 10^{-4}$	$6.006 \times 10^{-3}$	$2.652 \times 10^{-3}$
0.7200	0.2467	$7.431 \times 10^{-2}$	$-6.569 \times 10^{-4}$	$6.698 \times 10^{-3}$	$2.899 \times 10^{-3}$
0.7267	0.2467	$7.404 \times 10^{-2}$	$-6.216 \times 10^{-4}$	$6.908 \times 10^{-3}$	$2.944 \times 10^{-3}$
0.7333	0.2467	$7.433 \times 10^{-2}$	$-8.240 \times 10^{-4}$	$7.686 \times 10^{-3}$	$3.172 \times 10^{-3}$
0.7400	0.2467	$7.422 \times 10^{-2}$	$-7.871 \times 10^{-4}$	$7.853 \times 10^{-3}$	$3.203 \times 10^{-3}$
0.7467	0.2467	$7.539 \times 10^{-2}$	$-1.269 \times 10^{-3}$	$9.523 \times 10^{-3}$	$3.682 \times 10^{-3}$
0.7533	0.2467	$7.559 \times 10^{-2}$	$-1.260 \times 10^{-3}$	$9.841 \times 10^{-3}$	$3.760 \times 10^{-3}$
0.7600	0.2467	$7.635 \times 10^{-2}$	$-1.189 \times 10^{-3}$	$1.108 \times 10^{-2}$	$4.051 \times 10^{-3}$
0.7667	0.2467	$7.583 \times 10^{-2}$	$-1.058 \times 10^{-3}$	$1.122 \times 10^{-2}$	$4.046 \times 10^{-3}$
0.7733	0.2467	$7.946 \times 10^{-2}$	$-1.220 \times 10^{-3}$	$1.279 \times 10^{-2}$	$4.485 \times 10^{-3}$
0.7800	0.2467	$7.988 \times 10^{-2}$	$-1.129 \times 10^{-3}$	$1.298 \times 10^{-2}$	$4.528 \times 10^{-3}$
0.7867	0.2467	$8.305 \times 10^{-2}$	$-4.971 \times 10^{-4}$	$1.413 \times 10^{-2}$	$4.809 \times 10^{-3}$
0.7933	0.2467	$8.335 \times 10^{-2}$	$-4.440 \times 10^{-4}$	$1.422 \times 10^{-2}$	$4.831 \times 10^{-3}$
0.8000	0.2467	$8.709 \times 10^{-2}$	$4.171 \times 10^{-4}$	$1.550 \times 10^{-2}$	$5.100 \times 10^{-3}$
0.8067	0.2467	$8.772 \times 10^{-2}$	$5.579 \times 10^{-4}$	$1.561 \times 10^{-2}$	$5.132 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8133	0.2467	$9.156 \times 10^{-2}$	$1.801 \times 10^{-3}$	$1.668 \times 10^{-2}$	$5.372 \times 10^{-3}$
0.8200	0.2467	$9.337 \times 10^{-2}$	$2.180 \times 10^{-3}$	$1.675 \times 10^{-2}$	$5.438 \times 10^{-3}$
0.8267	0.2467	$9.787 \times 10^{-2}$	$3.673 \times 10^{-3}$	$1.712 \times 10^{-2}$	$5.680 \times 10^{-3}$
0.8333	0.2467	$9.877 \times 10^{-2}$	$3.903 \times 10^{-3}$	$1.708 \times 10^{-2}$	$5.687 \times 10^{-3}$
0.8400	0.2467	$1.050 \times 10^{-1}$	$6.138 \times 10^{-3}$	$1.696 \times 10^{-2}$	$5.768 \times 10^{-3}$
0.8467	0.2467	$1.061 \times 10^{-1}$	$6.544 \times 10^{-3}$	$1.699 \times 10^{-2}$	$5.797 \times 10^{-3}$
0.8533	0.2467	$1.070 \times 10^{-1}$	$8.070 \times 10^{-3}$	$1.702 \times 10^{-2}$	$5.717 \times 10^{-3}$
0.8600	0.2467	$1.076 \times 10^{-1}$	$8.526 \times 10^{-3}$	$1.692 \times 10^{-2}$	$5.696 \times 10^{-3}$
0.8667	0.2467	$1.113 \times 10^{-1}$	$1.081 \times 10^{-2}$	$1.546 \times 10^{-2}$	$5.505 \times 10^{-3}$
0.8733	0.2467	$1.114 \times 10^{-1}$	$1.100 \times 10^{-2}$	$1.523 \times 10^{-2}$	$5.464 \times 10^{-3}$
0.8800	0.2467	$1.135 \times 10^{-1}$	$1.341 \times 10^{-2}$	$1.290 \times 10^{-2}$	$5.097 \times 10^{-3}$
0.8867	0.2467	$1.134 \times 10^{-1}$	$1.361 \times 10^{-2}$	$1.269 \times 10^{-2}$	$5.061 \times 10^{-3}$
0.8933	0.2467	$1.122 \times 10^{-1}$	$1.493 \times 10^{-2}$	$1.168 \times 10^{-2}$	$4.845 \times 10^{-3}$
0.9000	0.2467	$1.123 \times 10^{-1}$	$1.513 \times 10^{-2}$	$1.163 \times 10^{-2}$	$4.837 \times 10^{-3}$
0.9067	0.2467	$1.106 \times 10^{-1}$	$1.614 \times 10^{-2}$	$9.776 \times 10^{-3}$	$4.522 \times 10^{-3}$
0.9133	0.2467	$1.095 \times 10^{-1}$	$1.726 \times 10^{-2}$	$8.126 \times 10^{-3}$	$4.257 \times 10^{-3}$
0.9200	0.2467	$1.054 \times 10^{-1}$	$1.736 \times 10^{-2}$	$6.791 \times 10^{-3}$	$3.855 \times 10^{-3}$
0.9267	0.2467	$1.042 \times 10^{-1}$	$1.761 \times 10^{-2}$	$6.010 \times 10^{-3}$	$3.684 \times 10^{-3}$
0.9333	0.2467	$1.011 \times 10^{-1}$	$1.743 \times 10^{-2}$	$5.579 \times 10^{-3}$	$3.509 \times 10^{-3}$
0.9400	0.2467	$9.987 \times 10^{-2}$	$1.744 \times 10^{-2}$	$5.309 \times 10^{-3}$	$3.424 \times 10^{-3}$
0.9467	0.2467	$9.479 \times 10^{-2}$	$1.770 \times 10^{-2}$	$3.184 \times 10^{-3}$	$3.063 \times 10^{-3}$
0.9533	0.2467	$9.425 \times 10^{-2}$	$1.775 \times 10^{-2}$	$2.915 \times 10^{-3}$	$3.022 \times 10^{-3}$
0.9600	0.2467	$8.826 \times 10^{-2}$	$1.809 \times 10^{-2}$	$1.747 \times 10^{-3}$	$2.743 \times 10^{-3}$
0.9667	0.2467	$8.776 \times 10^{-2}$	$1.827 \times 10^{-2}$	$1.721 \times 10^{-3}$	$2.725 \times 10^{-3}$
0.9733	0.2467	$8.160 \times 10^{-2}$	$1.984 \times 10^{-2}$	$7.502 \times 10^{-4}$	$2.675 \times 10^{-3}$
0.9800	0.2467	$8.120 \times 10^{-2}$	$2.023 \times 10^{-2}$	$7.881 \times 10^{-4}$	$2.699 \times 10^{-3}$
0.9867	0.2467	$7.035 \times 10^{-2}$	$1.978 \times 10^{-2}$	$-7.534 \times 10^{-4}$	$2.285 \times 10^{-3}$
0.9933	0.2467	$6.482 \times 10^{-2}$	$1.991 \times 10^{-2}$	$-7.017 \times 10^{-4}$	$2.079 \times 10^{-3}$
1.0000	0.2467	$6.212 \times 10^{-2}$	$1.992 \times 10^{-2}$	$-7.804 \times 10^{-4}$	$1.962 \times 10^{-3}$
0.4667	0.2533	$3.114 \times 10^{-2}$	$1.063 \times 10^{-2}$	$9.143 \times 10^{-5}$	$4.364 \times 10^{-3}$
0.4733	0.2533	$3.136 \times 10^{-2}$	$1.061 \times 10^{-2}$	$6.159 \times 10^{-5}$	$4.390 \times 10^{-3}$
0.4800	0.2533	$3.186 \times 10^{-2}$	$1.021 \times 10^{-2}$	$1.793 \times 10^{-4}$	$4.387 \times 10^{-3}$
0.4867	0.2533	$3.199 \times 10^{-2}$	$1.009 \times 10^{-2}$	$2.026 \times 10^{-4}$	$4.392 \times 10^{-3}$
0.4933	0.2533	$3.290 \times 10^{-2}$	$9.723 \times 10^{-3}$	$5.645 \times 10^{-4}$	$4.391 \times 10^{-3}$
0.5000	0.2533	$3.319 \times 10^{-2}$	$9.608 \times 10^{-3}$	$6.883 \times 10^{-4}$	$4.402 \times 10^{-3}$
0.5067	0.2533	$3.466 \times 10^{-2}$	$9.285 \times 10^{-3}$	$9.693 \times 10^{-4}$	$4.475 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.5133	0.2533	$3.517 \times 10^{-2}$	$9.139 \times 10^{-3}$	$1.081 \times 10^{-3}$	$4.497 \times 10^{-3}$
0.5200	0.2533	$3.709 \times 10^{-2}$	$8.515 \times 10^{-3}$	$1.218 \times 10^{-3}$	$4.431 \times 10^{-3}$
0.5267	0.2533	$3.783 \times 10^{-2}$	$8.260 \times 10^{-3}$	$1.309 \times 10^{-3}$	$4.420 \times 10^{-3}$
0.5333	0.2533	$4.081 \times 10^{-2}$	$7.221 \times 10^{-3}$	$1.469 \times 10^{-3}$	$4.325 \times 10^{-3}$
0.5400	0.2533	$4.196 \times 10^{-2}$	$6.791 \times 10^{-3}$	$1.555 \times 10^{-3}$	$4.268 \times 10^{-3}$
0.5467	0.2533	$4.439 \times 10^{-2}$	$5.535 \times 10^{-3}$	$1.875 \times 10^{-3}$	$3.939 \times 10^{-3}$
0.5533	0.2533	$4.541 \times 10^{-2}$	$4.954 \times 10^{-3}$	$1.978 \times 10^{-3}$	$3.788 \times 10^{-3}$
0.5600	0.2533	$4.831 \times 10^{-2}$	$3.788 \times 10^{-3}$	$2.322 \times 10^{-3}$	$3.693 \times 10^{-3}$
0.5667	0.2533	$4.938 \times 10^{-2}$	$3.280 \times 10^{-3}$	$2.411 \times 10^{-3}$	$3.632 \times 10^{-3}$
0.5733	0.2533	$5.262 \times 10^{-2}$	$2.503 \times 10^{-3}$	$2.733 \times 10^{-3}$	$3.540 \times 10^{-3}$
0.5800	0.2533	$5.378 \times 10^{-2}$	$2.182 \times 10^{-3}$	$2.819 \times 10^{-3}$	$3.516 \times 10^{-3}$
0.5867	0.2533	$5.685 \times 10^{-2}$	$1.692 \times 10^{-3}$	$3.221 \times 10^{-3}$	$3.366 \times 10^{-3}$
0.5933	0.2533	$5.794 \times 10^{-2}$	$1.479 \times 10^{-3}$	$3.352 \times 10^{-3}$	$3.318 \times 10^{-3}$
0.6000	0.2533	$6.047 \times 10^{-2}$	$9.406 \times 10^{-4}$	$3.625 \times 10^{-3}$	$3.091 \times 10^{-3}$
0.6067	0.2533	$6.145 \times 10^{-2}$	$7.534 \times 10^{-4}$	$3.699 \times 10^{-3}$	$3.021 \times 10^{-3}$
0.6133	0.2533	$6.377 \times 10^{-2}$	$4.397 \times 10^{-4}$	$3.849 \times 10^{-3}$	$2.893 \times 10^{-3}$
0.6200	0.2533	$6.471 \times 10^{-2}$	$2.955 \times 10^{-4}$	$3.886 \times 10^{-3}$	$2.837 \times 10^{-3}$
0.6267	0.2533	$6.687 \times 10^{-2}$	$1.048 \times 10^{-4}$	$3.999 \times 10^{-3}$	$2.737 \times 10^{-3}$
0.6333	0.2533	$6.775 \times 10^{-2}$	$-7.595 \times 10^{-6}$	$4.015 \times 10^{-3}$	$2.688 \times 10^{-3}$
0.6400	0.2533	$6.936 \times 10^{-2}$	$-6.305 \times 10^{-5}$	$4.235 \times 10^{-3}$	$2.624 \times 10^{-3}$
0.6467	0.2533	$7.003 \times 10^{-2}$	$-1.374 \times 10^{-4}$	$4.278 \times 10^{-3}$	$2.593 \times 10^{-3}$
0.6533	0.2533	$7.141 \times 10^{-2}$	$1.585 \times 10^{-4}$	$4.427 \times 10^{-3}$	$2.505 \times 10^{-3}$
0.6600	0.2533	$7.206 \times 10^{-2}$	$2.044 \times 10^{-4}$	$4.472 \times 10^{-3}$	$2.477 \times 10^{-3}$
0.6667	0.2533	$7.277 \times 10^{-2}$	$9.999 \times 10^{-5}$	$4.395 \times 10^{-3}$	$2.405 \times 10^{-3}$
0.6733	0.2533	$7.319 \times 10^{-2}$	$6.127 \times 10^{-5}$	$4.390 \times 10^{-3}$	$2.379 \times 10^{-3}$
0.6800	0.2533	$7.373 \times 10^{-2}$	$1.517 \times 10^{-4}$	$4.563 \times 10^{-3}$	$2.358 \times 10^{-3}$
0.6867	0.2533	$7.402 \times 10^{-2}$	$1.556 \times 10^{-4}$	$4.616 \times 10^{-3}$	$2.345 \times 10^{-3}$
0.6933	0.2533	$7.407 \times 10^{-2}$	$1.419 \times 10^{-4}$	$5.039 \times 10^{-3}$	$2.407 \times 10^{-3}$
0.7000	0.2533	$7.421 \times 10^{-2}$	$1.376 \times 10^{-4}$	$5.173 \times 10^{-3}$	$2.423 \times 10^{-3}$
0.7067	0.2533	$7.396 \times 10^{-2}$	$-1.561 \times 10^{-4}$	$5.724 \times 10^{-3}$	$2.566 \times 10^{-3}$
0.7133	0.2533	$7.400 \times 10^{-2}$	$-2.631 \times 10^{-4}$	$5.923 \times 10^{-3}$	$2.612 \times 10^{-3}$
0.7200	0.2533	$7.380 \times 10^{-2}$	$-4.375 \times 10^{-4}$	$6.558 \times 10^{-3}$	$2.828 \times 10^{-3}$
0.7267	0.2533	$7.388 \times 10^{-2}$	$-5.428 \times 10^{-4}$	$6.788 \times 10^{-3}$	$2.901 \times 10^{-3}$
0.7333	0.2533	$7.388 \times 10^{-2}$	$-6.196 \times 10^{-4}$	$7.466 \times 10^{-3}$	$3.084 \times 10^{-3}$
0.7400	0.2533	$7.394 \times 10^{-2}$	$-6.673 \times 10^{-4}$	$7.617 \times 10^{-3}$	$3.126 \times 10^{-3}$
0.7467	0.2533	$7.359 \times 10^{-2}$	$-6.030 \times 10^{-4}$	$8.112 \times 10^{-3}$	$3.248 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.7533	0.2533	$7.382 \times 10^{-2}$	$-6.543 \times 10^{-4}$	$9.245 \times 10^{-3}$	$3.537 \times 10^{-3}$
0.7600	0.2533	$7.405 \times 10^{-2}$	$-6.812 \times 10^{-4}$	$9.773 \times 10^{-3}$	$3.667 \times 10^{-3}$
0.7667	0.2533	$7.556 \times 10^{-2}$	$-9.972 \times 10^{-4}$	$1.110 \times 10^{-2}$	$4.010 \times 10^{-3}$
0.7733	0.2533	$7.550 \times 10^{-2}$	$-7.449 \times 10^{-4}$	$1.118 \times 10^{-2}$	$4.021 \times 10^{-3}$
0.7800	0.2533	$7.638 \times 10^{-2}$	$-5.990 \times 10^{-4}$	$1.215 \times 10^{-2}$	$4.219 \times 10^{-3}$
0.7867	0.2533	$7.768 \times 10^{-2}$	$-5.094 \times 10^{-4}$	$1.266 \times 10^{-2}$	$4.351 \times 10^{-3}$
0.7933	0.2533	$7.985 \times 10^{-2}$	$-1.153 \times 10^{-4}$	$1.382 \times 10^{-2}$	$4.609 \times 10^{-3}$
0.8000	0.2533	$8.314 \times 10^{-2}$	$2.413 \times 10^{-4}$	$1.468 \times 10^{-2}$	$4.844 \times 10^{-3}$
0.8067	0.2533	$8.487 \times 10^{-2}$	$7.358 \times 10^{-4}$	$1.528 \times 10^{-2}$	$4.986 \times 10^{-3}$
0.8133	0.2533	$8.964 \times 10^{-2}$	$1.613 \times 10^{-3}$	$1.631 \times 10^{-2}$	$5.266 \times 10^{-3}$
0.8200	0.2533	$9.027 \times 10^{-2}$	$2.087 \times 10^{-3}$	$1.637 \times 10^{-2}$	$5.304 \times 10^{-3}$
0.8267	0.2533	$9.546 \times 10^{-2}$	$3.320 \times 10^{-3}$	$1.686 \times 10^{-2}$	$5.559 \times 10^{-3}$
0.8333	0.2533	$9.578 \times 10^{-2}$	$3.718 \times 10^{-3}$	$1.688 \times 10^{-2}$	$5.543 \times 10^{-3}$
0.8400	0.2533	$9.568 \times 10^{-2}$	$4.339 \times 10^{-3}$	$1.680 \times 10^{-2}$	$5.475 \times 10^{-3}$
0.8467	0.2533	$1.000 \times 10^{-1}$	$6.002 \times 10^{-3}$	$1.695 \times 10^{-2}$	$5.568 \times 10^{-3}$
0.8533	0.2533	$1.039 \times 10^{-1}$	$7.442 \times 10^{-3}$	$1.711 \times 10^{-2}$	$5.644 \times 10^{-3}$
0.8600	0.2533	$1.058 \times 10^{-1}$	$8.166 \times 10^{-3}$	$1.707 \times 10^{-2}$	$5.668 \times 10^{-3}$
0.8667	0.2533	$1.062 \times 10^{-1}$	$9.304 \times 10^{-3}$	$1.621 \times 10^{-2}$	$5.494 \times 10^{-3}$
0.8733	0.2533	$1.069 \times 10^{-1}$	$1.030 \times 10^{-2}$	$1.578 \times 10^{-2}$	$5.396 \times 10^{-3}$
0.8800	0.2533	$1.065 \times 10^{-1}$	$1.089 \times 10^{-2}$	$1.543 \times 10^{-2}$	$5.288 \times 10^{-3}$
0.8867	0.2533	$1.078 \times 10^{-1}$	$1.226 \times 10^{-2}$	$1.428 \times 10^{-2}$	$5.074 \times 10^{-3}$
0.8933	0.2533	$1.086 \times 10^{-1}$	$1.322 \times 10^{-2}$	$1.349 \times 10^{-2}$	$4.952 \times 10^{-3}$
0.9000	0.2533	$1.107 \times 10^{-1}$	$1.464 \times 10^{-2}$	$1.204 \times 10^{-2}$	$4.807 \times 10^{-3}$
0.9067	0.2533	$1.074 \times 10^{-1}$	$1.418 \times 10^{-2}$	$1.224 \times 10^{-2}$	$4.633 \times 10^{-3}$
0.9133	0.2533	$1.063 \times 10^{-1}$	$1.525 \times 10^{-2}$	$1.071 \times 10^{-2}$	$4.323 \times 10^{-3}$
0.9200	0.2533	$1.054 \times 10^{-1}$	$1.564 \times 10^{-2}$	$1.005 \times 10^{-2}$	$4.147 \times 10^{-3}$
0.9267	0.2533	$1.034 \times 10^{-1}$	$1.673 \times 10^{-2}$	$7.577 \times 10^{-3}$	$3.800 \times 10^{-3}$
0.9333	0.2533	$1.011 \times 10^{-1}$	$1.672 \times 10^{-2}$	$7.117 \times 10^{-3}$	$3.642 \times 10^{-3}$
0.9400	0.2533	$9.976 \times 10^{-2}$	$1.730 \times 10^{-2}$	$5.684 \times 10^{-3}$	$3.447 \times 10^{-3}$
0.9467	0.2533	$9.679 \times 10^{-2}$	$1.723 \times 10^{-2}$	$5.325 \times 10^{-3}$	$3.283 \times 10^{-3}$
0.9533	0.2533	$9.427 \times 10^{-2}$	$1.762 \times 10^{-2}$	$3.848 \times 10^{-3}$	$3.083 \times 10^{-3}$
0.9600	0.2533	$9.122 \times 10^{-2}$	$1.788 \times 10^{-2}$	$3.844 \times 10^{-3}$	$2.976 \times 10^{-3}$
0.9667	0.2533	$8.798 \times 10^{-2}$	$1.849 \times 10^{-2}$	$2.394 \times 10^{-3}$	$2.812 \times 10^{-3}$
0.9733	0.2533	$8.545 \times 10^{-2}$	$1.980 \times 10^{-2}$	$3.051 \times 10^{-3}$	$2.928 \times 10^{-3}$
0.9800	0.2533	$8.082 \times 10^{-2}$	$2.026 \times 10^{-2}$	$1.543 \times 10^{-3}$	$2.735 \times 10^{-3}$
0.9867	0.2533	$7.537 \times 10^{-2}$	$2.086 \times 10^{-2}$	$1.938 \times 10^{-3}$	$2.622 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9933	0.2533	$7.397 \times 10^{-2}$	$2.078 \times 10^{-2}$	$1.714 \times 10^{-3}$	$2.567 \times 10^{-3}$
1.0000	0.2533	$6.503 \times 10^{-2}$	$2.042 \times 10^{-2}$	$4.034 \times 10^{-4}$	$2.194 \times 10^{-3}$
0.4667	0.2600	$3.044 \times 10^{-2}$	$1.057 \times 10^{-2}$	$1.907 \times 10^{-4}$	$4.227 \times 10^{-3}$
0.4733	0.2600	$3.138 \times 10^{-2}$	$1.047 \times 10^{-2}$	$1.344 \times 10^{-4}$	$4.341 \times 10^{-3}$
0.4800	0.2600	$3.158 \times 10^{-2}$	$1.042 \times 10^{-2}$	$1.298 \times 10^{-4}$	$4.358 \times 10^{-3}$
0.4867	0.2600	$3.211 \times 10^{-2}$	$9.980 \times 10^{-3}$	$2.584 \times 10^{-4}$	$4.334 \times 10^{-3}$
0.4933	0.2600	$3.224 \times 10^{-2}$	$9.876 \times 10^{-3}$	$2.822 \times 10^{-4}$	$4.318 \times 10^{-3}$
0.5000	0.2600	$3.346 \times 10^{-2}$	$9.674 \times 10^{-3}$	$6.851 \times 10^{-4}$	$4.430 \times 10^{-3}$
0.5067	0.2600	$3.376 \times 10^{-2}$	$9.645 \times 10^{-3}$	$7.682 \times 10^{-4}$	$4.459 \times 10^{-3}$
0.5133	0.2600	$3.532 \times 10^{-2}$	$9.112 \times 10^{-3}$	$9.455 \times 10^{-4}$	$4.413 \times 10^{-3}$
0.5200	0.2600	$3.565 \times 10^{-2}$	$9.008 \times 10^{-3}$	$9.661 \times 10^{-4}$	$4.395 \times 10^{-3}$
0.5267	0.2600	$3.829 \times 10^{-2}$	$8.159 \times 10^{-3}$	$1.226 \times 10^{-3}$	$4.447 \times 10^{-3}$
0.5333	0.2600	$3.888 \times 10^{-2}$	$7.985 \times 10^{-3}$	$1.266 \times 10^{-3}$	$4.464 \times 10^{-3}$
0.5400	0.2600	$4.180 \times 10^{-2}$	$6.987 \times 10^{-3}$	$1.679 \times 10^{-3}$	$4.289 \times 10^{-3}$
0.5467	0.2600	$4.240 \times 10^{-2}$	$6.817 \times 10^{-3}$	$1.777 \times 10^{-3}$	$4.261 \times 10^{-3}$
0.5533	0.2600	$4.541 \times 10^{-2}$	$5.307 \times 10^{-3}$	$2.129 \times 10^{-3}$	$3.946 \times 10^{-3}$
0.5600	0.2600	$4.603 \times 10^{-2}$	$5.045 \times 10^{-3}$	$2.220 \times 10^{-3}$	$3.897 \times 10^{-3}$
0.5667	0.2600	$4.914 \times 10^{-2}$	$3.596 \times 10^{-3}$	$2.552 \times 10^{-3}$	$3.611 \times 10^{-3}$
0.5733	0.2600	$4.980 \times 10^{-2}$	$3.325 \times 10^{-3}$	$2.644 \times 10^{-3}$	$3.547 \times 10^{-3}$
0.5800	0.2600	$5.352 \times 10^{-2}$	$2.489 \times 10^{-3}$	$2.891 \times 10^{-3}$	$3.481 \times 10^{-3}$
0.5867	0.2600	$5.434 \times 10^{-2}$	$2.357 \times 10^{-3}$	$2.954 \times 10^{-3}$	$3.464 \times 10^{-3}$
0.5933	0.2600	$5.728 \times 10^{-2}$	$1.528 \times 10^{-3}$	$3.430 \times 10^{-3}$	$3.258 \times 10^{-3}$
0.6000	0.2600	$5.786 \times 10^{-2}$	$1.349 \times 10^{-3}$	$3.548 \times 10^{-3}$	$3.204 \times 10^{-3}$
0.6067	0.2600	$6.065 \times 10^{-2}$	$9.681 \times 10^{-4}$	$3.758 \times 10^{-3}$	$3.072 \times 10^{-3}$
0.6133	0.2600	$6.118 \times 10^{-2}$	$9.132 \times 10^{-4}$	$3.813 \times 10^{-3}$	$3.051 \times 10^{-3}$
0.6200	0.2600	$6.395 \times 10^{-2}$	$5.620 \times 10^{-4}$	$4.006 \times 10^{-3}$	$2.906 \times 10^{-3}$
0.6267	0.2600	$6.449 \times 10^{-2}$	$5.299 \times 10^{-4}$	$4.069 \times 10^{-3}$	$2.889 \times 10^{-3}$
0.6333	0.2600	$6.702 \times 10^{-2}$	$2.893 \times 10^{-4}$	$4.236 \times 10^{-3}$	$2.740 \times 10^{-3}$
0.6400	0.2600	$6.748 \times 10^{-2}$	$2.889 \times 10^{-4}$	$4.310 \times 10^{-3}$	$2.720 \times 10^{-3}$
0.6467	0.2600	$6.899 \times 10^{-2}$	$2.272 \times 10^{-4}$	$4.351 \times 10^{-3}$	$2.594 \times 10^{-3}$
0.6533	0.2600	$6.916 \times 10^{-2}$	$2.625 \times 10^{-4}$	$4.375 \times 10^{-3}$	$2.570 \times 10^{-3}$
0.6600	0.2600	$7.105 \times 10^{-2}$	$2.286 \times 10^{-4}$	$4.363 \times 10^{-3}$	$2.481 \times 10^{-3}$
0.6667	0.2600	$7.129 \times 10^{-2}$	$2.257 \times 10^{-4}$	$4.349 \times 10^{-3}$	$2.465 \times 10^{-3}$
0.6733	0.2600	$7.230 \times 10^{-2}$	$2.823 \times 10^{-4}$	$4.402 \times 10^{-3}$	$2.412 \times 10^{-3}$
0.6800	0.2600	$7.240 \times 10^{-2}$	$3.194 \times 10^{-4}$	$4.406 \times 10^{-3}$	$2.405 \times 10^{-3}$
0.6867	0.2600	$7.306 \times 10^{-2}$	$2.189 \times 10^{-4}$	$4.648 \times 10^{-3}$	$2.361 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6933	0.2600	$7.307 \times 10^{-2}$	$2.064 \times 10^{-4}$	$4.694 \times 10^{-3}$	$2.354 \times 10^{-3}$
0.7000	0.2600	$7.328 \times 10^{-2}$	$2.383 \times 10^{-4}$	$5.060 \times 10^{-3}$	$2.405 \times 10^{-3}$
0.7067	0.2600	$7.321 \times 10^{-2}$	$2.579 \times 10^{-4}$	$5.117 \times 10^{-3}$	$2.413 \times 10^{-3}$
0.7133	0.2600	$7.305 \times 10^{-2}$	$8.393 \times 10^{-5}$	$5.734 \times 10^{-3}$	$2.566 \times 10^{-3}$
0.7200	0.2600	$7.288 \times 10^{-2}$	$9.545 \times 10^{-5}$	$5.831 \times 10^{-3}$	$2.590 \times 10^{-3}$
0.7267	0.2600	$7.291 \times 10^{-2}$	$-2.096 \times 10^{-6}$	$6.439 \times 10^{-3}$	$2.776 \times 10^{-3}$
0.7333	0.2600	$7.278 \times 10^{-2}$	$4.701 \times 10^{-5}$	$6.511 \times 10^{-3}$	$2.797 \times 10^{-3}$
0.7400	0.2600	$7.288 \times 10^{-2}$	$-3.493 \times 10^{-4}$	$7.530 \times 10^{-3}$	$3.076 \times 10^{-3}$
0.7467	0.2600	$7.280 \times 10^{-2}$	$-3.779 \times 10^{-4}$	$7.657 \times 10^{-3}$	$3.110 \times 10^{-3}$
0.7533	0.2600	$7.328 \times 10^{-2}$	$-4.974 \times 10^{-4}$	$8.967 \times 10^{-3}$	$3.450 \times 10^{-3}$
0.7600	0.2600	$7.343 \times 10^{-2}$	$-5.454 \times 10^{-4}$	$9.297 \times 10^{-3}$	$3.540 \times 10^{-3}$
0.7667	0.2600	$7.404 \times 10^{-2}$	$-5.078 \times 10^{-4}$	$1.039 \times 10^{-2}$	$3.810 \times 10^{-3}$
0.7733	0.2600	$7.411 \times 10^{-2}$	$-4.950 \times 10^{-4}$	$1.055 \times 10^{-2}$	$3.853 \times 10^{-3}$
0.7800	0.2600	$7.583 \times 10^{-2}$	$-5.455 \times 10^{-4}$	$1.202 \times 10^{-2}$	$4.171 \times 10^{-3}$
0.7867	0.2600	$7.614 \times 10^{-2}$	$-4.944 \times 10^{-4}$	$1.224 \times 10^{-2}$	$4.218 \times 10^{-3}$
0.7933	0.2600	$7.846 \times 10^{-2}$	$-4.585 \times 10^{-5}$	$1.367 \times 10^{-2}$	$4.532 \times 10^{-3}$
0.8000	0.2600	$7.884 \times 10^{-2}$	$5.047 \times 10^{-5}$	$1.380 \times 10^{-2}$	$4.562 \times 10^{-3}$
0.8067	0.2600	$8.172 \times 10^{-2}$	$7.389 \times 10^{-4}$	$1.490 \times 10^{-2}$	$4.835 \times 10^{-3}$
0.8133	0.2600	$8.241 \times 10^{-2}$	$9.065 \times 10^{-4}$	$1.501 \times 10^{-2}$	$4.868 \times 10^{-3}$
0.8200	0.2600	$8.625 \times 10^{-2}$	$2.000 \times 10^{-3}$	$1.585 \times 10^{-2}$	$5.129 \times 10^{-3}$
0.8267	0.2600	$8.673 \times 10^{-2}$	$2.112 \times 10^{-3}$	$1.590 \times 10^{-2}$	$5.142 \times 10^{-3}$
0.8333	0.2600	$9.244 \times 10^{-2}$	$3.635 \times 10^{-3}$	$1.666 \times 10^{-2}$	$5.363 \times 10^{-3}$
0.8400	0.2600	$9.287 \times 10^{-2}$	$3.744 \times 10^{-3}$	$1.672 \times 10^{-2}$	$5.385 \times 10^{-3}$
0.8467	0.2600	$9.595 \times 10^{-2}$	$5.422 \times 10^{-3}$	$1.695 \times 10^{-2}$	$5.436 \times 10^{-3}$
0.8533	0.2600	$9.676 \times 10^{-2}$	$5.699 \times 10^{-3}$	$1.705 \times 10^{-2}$	$5.469 \times 10^{-3}$
0.8600	0.2600	$9.999 \times 10^{-2}$	$7.515 \times 10^{-3}$	$1.692 \times 10^{-2}$	$5.451 \times 10^{-3}$
0.8667	0.2600	$1.004 \times 10^{-1}$	$7.751 \times 10^{-3}$	$1.694 \times 10^{-2}$	$5.455 \times 10^{-3}$
0.8733	0.2600	$1.042 \times 10^{-1}$	$1.000 \times 10^{-2}$	$1.613 \times 10^{-2}$	$5.345 \times 10^{-3}$
0.8800	0.2600	$1.048 \times 10^{-1}$	$1.031 \times 10^{-2}$	$1.606 \times 10^{-2}$	$5.343 \times 10^{-3}$
0.8867	0.2600	$1.055 \times 10^{-1}$	$1.166 \times 10^{-2}$	$1.497 \times 10^{-2}$	$5.066 \times 10^{-3}$
0.8933	0.2600	$1.062 \times 10^{-1}$	$1.199 \times 10^{-2}$	$1.482 \times 10^{-2}$	$5.043 \times 10^{-3}$
0.9000	0.2600	$1.060 \times 10^{-1}$	$1.329 \times 10^{-2}$	$1.318 \times 10^{-2}$	$4.716 \times 10^{-3}$
0.9067	0.2600	$1.064 \times 10^{-1}$	$1.372 \times 10^{-2}$	$1.279 \times 10^{-2}$	$4.646 \times 10^{-3}$
0.9133	0.2600	$1.053 \times 10^{-1}$	$1.469 \times 10^{-2}$	$1.149 \times 10^{-2}$	$4.329 \times 10^{-3}$
0.9200	0.2600	$1.056 \times 10^{-1}$	$1.519 \times 10^{-2}$	$1.101 \times 10^{-2}$	$4.244 \times 10^{-3}$
0.9267	0.2600	$1.023 \times 10^{-1}$	$1.557 \times 10^{-2}$	$9.638 \times 10^{-3}$	$3.938 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.9333	0.2600	$1.019 \times 10^{-1}$	$1.575 \times 10^{-2}$	$9.310 \times 10^{-3}$	$3.869 \times 10^{-3}$
0.9400	0.2600	$9.899 \times 10^{-2}$	$1.649 \times 10^{-2}$	$7.822 \times 10^{-3}$	$3.554 \times 10^{-3}$
0.9467	0.2600	$9.857 \times 10^{-2}$	$1.667 \times 10^{-2}$	$7.626 \times 10^{-3}$	$3.493 \times 10^{-3}$
0.9533	0.2600	$9.463 \times 10^{-2}$	$1.730 \times 10^{-2}$	$6.118 \times 10^{-3}$	$3.232 \times 10^{-3}$
0.9600	0.2600	$9.389 \times 10^{-2}$	$1.752 \times 10^{-2}$	$5.756 \times 10^{-3}$	$3.166 \times 10^{-3}$
0.9667	0.2600	$8.954 \times 10^{-2}$	$1.897 \times 10^{-2}$	$5.026 \times 10^{-3}$	$3.129 \times 10^{-3}$
0.9733	0.2600	$8.803 \times 10^{-2}$	$1.985 \times 10^{-2}$	$4.638 \times 10^{-3}$	$3.113 \times 10^{-3}$
0.9800	0.2600	$8.396 \times 10^{-2}$	$2.019 \times 10^{-2}$	$4.125 \times 10^{-3}$	$3.016 \times 10^{-3}$
0.9867	0.2600	$7.708 \times 10^{-2}$	$2.086 \times 10^{-2}$	$2.984 \times 10^{-3}$	$2.785 \times 10^{-3}$
0.9933	0.2600	$7.180 \times 10^{-2}$	$2.134 \times 10^{-2}$	$2.858 \times 10^{-3}$	$2.680 \times 10^{-3}$
1.0000	0.2600	$7.013 \times 10^{-2}$	$2.152 \times 10^{-2}$	$2.873 \times 10^{-3}$	$2.652 \times 10^{-3}$
0.4667	0.2667	$3.050 \times 10^{-2}$	$1.061 \times 10^{-2}$	$1.889 \times 10^{-4}$	$4.234 \times 10^{-3}$
0.4733	0.2667	$3.117 \times 10^{-2}$	$1.054 \times 10^{-2}$	$1.559 \times 10^{-4}$	$4.298 \times 10^{-3}$
0.4800	0.2667	$3.154 \times 10^{-2}$	$1.038 \times 10^{-2}$	$1.582 \times 10^{-4}$	$4.351 \times 10^{-3}$
0.4867	0.2667	$3.187 \times 10^{-2}$	$1.001 \times 10^{-2}$	$2.925 \times 10^{-4}$	$4.342 \times 10^{-3}$
0.4933	0.2667	$3.226 \times 10^{-2}$	$9.871 \times 10^{-3}$	$3.166 \times 10^{-4}$	$4.324 \times 10^{-3}$
0.5000	0.2667	$3.309 \times 10^{-2}$	$9.715 \times 10^{-3}$	$6.013 \times 10^{-4}$	$4.389 \times 10^{-3}$
0.5067	0.2667	$3.376 \times 10^{-2}$	$9.622 \times 10^{-3}$	$7.495 \times 10^{-4}$	$4.444 \times 10^{-3}$
0.5133	0.2667	$3.477 \times 10^{-2}$	$9.281 \times 10^{-3}$	$8.408 \times 10^{-4}$	$4.411 \times 10^{-3}$
0.5200	0.2667	$3.571 \times 10^{-2}$	$8.971 \times 10^{-3}$	$9.672 \times 10^{-4}$	$4.399 \times 10^{-3}$
0.5267	0.2667	$3.731 \times 10^{-2}$	$8.420 \times 10^{-3}$	$1.129 \times 10^{-3}$	$4.427 \times 10^{-3}$
0.5333	0.2667	$3.883 \times 10^{-2}$	$7.985 \times 10^{-3}$	$1.292 \times 10^{-3}$	$4.447 \times 10^{-3}$
0.5400	0.2667	$4.050 \times 10^{-2}$	$7.422 \times 10^{-3}$	$1.571 \times 10^{-3}$	$4.355 \times 10^{-3}$
0.5467	0.2667	$4.232 \times 10^{-2}$	$6.802 \times 10^{-3}$	$1.792 \times 10^{-3}$	$4.263 \times 10^{-3}$
0.5533	0.2667	$4.412 \times 10^{-2}$	$5.928 \times 10^{-3}$	$2.048 \times 10^{-3}$	$4.105 \times 10^{-3}$
0.5600	0.2667	$4.598 \times 10^{-2}$	$5.034 \times 10^{-3}$	$2.249 \times 10^{-3}$	$3.889 \times 10^{-3}$
0.5667	0.2667	$4.795 \times 10^{-2}$	$4.047 \times 10^{-3}$	$2.521 \times 10^{-3}$	$3.663 \times 10^{-3}$
0.5733	0.2667	$4.973 \times 10^{-2}$	$3.352 \times 10^{-3}$	$2.655 \times 10^{-3}$	$3.547 \times 10^{-3}$
0.5800	0.2667	$5.212 \times 10^{-2}$	$2.757 \times 10^{-3}$	$2.852 \times 10^{-3}$	$3.474 \times 10^{-3}$
0.5867	0.2667	$5.414 \times 10^{-2}$	$2.365 \times 10^{-3}$	$2.980 \times 10^{-3}$	$3.449 \times 10^{-3}$
0.5933	0.2667	$5.595 \times 10^{-2}$	$1.814 \times 10^{-3}$	$3.341 \times 10^{-3}$	$3.298 \times 10^{-3}$
0.6000	0.2667	$5.767 \times 10^{-2}$	$1.402 \times 10^{-3}$	$3.550 \times 10^{-3}$	$3.205 \times 10^{-3}$
0.6067	0.2667	$5.932 \times 10^{-2}$	$1.182 \times 10^{-3}$	$3.740 \times 10^{-3}$	$3.110 \times 10^{-3}$
0.6133	0.2667	$6.097 \times 10^{-2}$	$9.390 \times 10^{-4}$	$3.830 \times 10^{-3}$	$3.046 \times 10^{-3}$
0.6200	0.2667	$6.253 \times 10^{-2}$	$7.300 \times 10^{-4}$	$4.002 \times 10^{-3}$	$2.936 \times 10^{-3}$
0.6267	0.2667	$6.426 \times 10^{-2}$	$5.428 \times 10^{-4}$	$4.069 \times 10^{-3}$	$2.879 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.6333	0.2667	$6.568 \times 10^{-2}$	$3.864 \times 10^{-4}$	$4.182 \times 10^{-3}$	$2.760 \times 10^{-3}$
0.6400	0.2667	$6.720 \times 10^{-2}$	$3.113 \times 10^{-4}$	$4.291 \times 10^{-3}$	$2.715 \times 10^{-3}$
0.6467	0.2667	$6.787 \times 10^{-2}$	$3.126 \times 10^{-4}$	$4.312 \times 10^{-3}$	$2.632 \times 10^{-3}$
0.6533	0.2667	$6.896 \times 10^{-2}$	$2.966 \times 10^{-4}$	$4.366 \times 10^{-3}$	$2.573 \times 10^{-3}$
0.6600	0.2667	$6.971 \times 10^{-2}$	$3.440 \times 10^{-4}$	$4.363 \times 10^{-3}$	$2.522 \times 10^{-3}$
0.6667	0.2667	$7.097 \times 10^{-2}$	$2.762 \times 10^{-4}$	$4.374 \times 10^{-3}$	$2.474 \times 10^{-3}$
0.6733	0.2667	$7.150 \times 10^{-2}$	$3.499 \times 10^{-4}$	$4.434 \times 10^{-3}$	$2.441 \times 10^{-3}$
0.6800	0.2667	$7.221 \times 10^{-2}$	$3.365 \times 10^{-4}$	$4.433 \times 10^{-3}$	$2.406 \times 10^{-3}$
0.6867	0.2667	$7.244 \times 10^{-2}$	$3.060 \times 10^{-4}$	$4.619 \times 10^{-3}$	$2.369 \times 10^{-3}$
0.6933	0.2667	$7.289 \times 10^{-2}$	$2.459 \times 10^{-4}$	$4.695 \times 10^{-3}$	$2.353 \times 10^{-3}$
0.7000	0.2667	$7.279 \times 10^{-2}$	$3.300 \times 10^{-4}$	$4.927 \times 10^{-3}$	$2.374 \times 10^{-3}$
0.7067	0.2667	$7.305 \times 10^{-2}$	$2.956 \times 10^{-4}$	$5.106 \times 10^{-3}$	$2.408 \times 10^{-3}$
0.7133	0.2667	$7.271 \times 10^{-2}$	$2.740 \times 10^{-4}$	$5.498 \times 10^{-3}$	$2.495 \times 10^{-3}$
0.7200	0.2667	$7.275 \times 10^{-2}$	$1.726 \times 10^{-4}$	$5.782 \times 10^{-3}$	$2.571 \times 10^{-3}$
0.7267	0.2667	$7.251 \times 10^{-2}$	$2.532 \times 10^{-4}$	$6.114 \times 10^{-3}$	$2.660 \times 10^{-3}$
0.7333	0.2667	$7.261 \times 10^{-2}$	$1.070 \times 10^{-4}$	$6.448 \times 10^{-3}$	$2.769 \times 10^{-3}$
0.7400	0.2667	$7.225 \times 10^{-2}$	$1.584 \times 10^{-5}$	$6.862 \times 10^{-3}$	$2.863 \times 10^{-3}$
0.7467	0.2667	$7.238 \times 10^{-2}$	$-1.727 \times 10^{-4}$	$7.481 \times 10^{-3}$	$3.037 \times 10^{-3}$
0.7533	0.2667	$7.190 \times 10^{-2}$	$1.995 \times 10^{-5}$	$7.676 \times 10^{-3}$	$3.054 \times 10^{-3}$
0.7600	0.2667	$7.221 \times 10^{-2}$	$-1.087 \times 10^{-4}$	$8.689 \times 10^{-3}$	$3.319 \times 10^{-3}$
0.7667	0.2667	$7.201 \times 10^{-2}$	$-2.211 \times 10^{-5}$	$9.000 \times 10^{-3}$	$3.380 \times 10^{-3}$
0.7733	0.2667	$7.291 \times 10^{-2}$	$-1.892 \times 10^{-4}$	$1.014 \times 10^{-2}$	$3.675 \times 10^{-3}$
0.7800	0.2667	$7.263 \times 10^{-2}$	$-7.091 \times 10^{-5}$	$1.042 \times 10^{-2}$	$3.699 \times 10^{-3}$
0.7867	0.2667	$7.382 \times 10^{-2}$	$-1.206 \times 10^{-4}$	$1.162 \times 10^{-2}$	$3.962 \times 10^{-3}$
0.7933	0.2667	$7.423 \times 10^{-2}$	$-4.869 \times 10^{-5}$	$1.206 \times 10^{-2}$	$4.051 \times 10^{-3}$
0.8000	0.2667	$7.631 \times 10^{-2}$	$3.069 \times 10^{-4}$	$1.309 \times 10^{-2}$	$4.316 \times 10^{-3}$
0.8067	0.2667	$7.743 \times 10^{-2}$	$5.512 \times 10^{-4}$	$1.358 \times 10^{-2}$	$4.435 \times 10^{-3}$
0.8133	0.2667	$7.944 \times 10^{-2}$	$1.011 \times 10^{-3}$	$1.430 \times 10^{-2}$	$4.587 \times 10^{-3}$
0.8200	0.2667	$8.119 \times 10^{-2}$	$1.453 \times 10^{-3}$	$1.475 \times 10^{-2}$	$4.710 \times 10^{-3}$
0.8267	0.2667	$8.357 \times 10^{-2}$	$2.019 \times 10^{-3}$	$1.536 \times 10^{-2}$	$4.866 \times 10^{-3}$
0.8333	0.2667	$8.445 \times 10^{-2}$	$2.467 \times 10^{-3}$	$1.556 \times 10^{-2}$	$4.878 \times 10^{-3}$
0.8400	0.2667	$8.858 \times 10^{-2}$	$3.551 \times 10^{-3}$	$1.621 \times 10^{-2}$	$5.115 \times 10^{-3}$
0.8467	0.2667	$8.800 \times 10^{-2}$	$4.029 \times 10^{-3}$	$1.618 \times 10^{-2}$	$5.052 \times 10^{-3}$
0.8533	0.2667	$9.258 \times 10^{-2}$	$5.321 \times 10^{-3}$	$1.662 \times 10^{-2}$	$5.230 \times 10^{-3}$
0.8600	0.2667	$9.200 \times 10^{-2}$	$5.788 \times 10^{-3}$	$1.650 \times 10^{-2}$	$5.143 \times 10^{-3}$
0.8667	0.2667	$9.625 \times 10^{-2}$	$7.222 \times 10^{-3}$	$1.662 \times 10^{-2}$	$5.239 \times 10^{-3}$

Table A.4: Surface variables on upper plate, fine grid (continued).

$x/L$	$y/L$	$p/\rho_\infty V_\infty^2$	$\tau_{zx}/\rho_\infty V_\infty^2$	$\tau_{zy}/\rho_\infty V_\infty^2$	$\dot{q}''/\rho_\infty V_\infty^3$
0.8733	0.2667	$9.518 \times 10^{-2}$	$7.617 \times 10^{-3}$	$1.636 \times 10^{-2}$	$5.107 \times 10^{-3}$
0.8800	0.2667	$9.892 \times 10^{-2}$	$9.196 \times 10^{-3}$	$1.595 \times 10^{-2}$	$5.102 \times 10^{-3}$
0.8867	0.2667	$9.756 \times 10^{-2}$	$9.392 \times 10^{-3}$	$1.565 \times 10^{-2}$	$4.957 \times 10^{-3}$
0.8933	0.2667	$1.010 \times 10^{-1}$	$1.080 \times 10^{-2}$	$1.501 \times 10^{-2}$	$4.888 \times 10^{-3}$
0.9000	0.2667	$9.930 \times 10^{-2}$	$1.078 \times 10^{-2}$	$1.475 \times 10^{-2}$	$4.740 \times 10^{-3}$
0.9067	0.2667	$1.017 \times 10^{-1}$	$1.231 \times 10^{-2}$	$1.364 \times 10^{-2}$	$4.573 \times 10^{-3}$
0.9133	0.2667	$1.002 \times 10^{-1}$	$1.227 \times 10^{-2}$	$1.355 \times 10^{-2}$	$4.446 \times 10^{-3}$
0.9200	0.2667	$1.013 \times 10^{-1}$	$1.372 \times 10^{-2}$	$1.217 \times 10^{-2}$	$4.231 \times 10^{-3}$
0.9267	0.2667	$9.940 \times 10^{-2}$	$1.365 \times 10^{-2}$	$1.207 \times 10^{-2}$	$4.113 \times 10^{-3}$
0.9333	0.2667	$9.943 \times 10^{-2}$	$1.483 \times 10^{-2}$	$1.036 \times 10^{-2}$	$3.897 \times 10^{-3}$
0.9400	0.2667	$9.749 \times 10^{-2}$	$1.473 \times 10^{-2}$	$1.033 \times 10^{-2}$	$3.801 \times 10^{-3}$
0.9467	0.2667	$9.674 \times 10^{-2}$	$1.592 \times 10^{-2}$	$8.715 \times 10^{-3}$	$3.559 \times 10^{-3}$
0.9533	0.2667	$9.481 \times 10^{-2}$	$1.595 \times 10^{-2}$	$8.802 \times 10^{-3}$	$3.497 \times 10^{-3}$
0.9600	0.2667	$9.272 \times 10^{-2}$	$1.732 \times 10^{-2}$	$7.141 \times 10^{-3}$	$3.324 \times 10^{-3}$
0.9667	0.2667	$9.058 \times 10^{-2}$	$1.791 \times 10^{-2}$	$7.819 \times 10^{-3}$	$3.415 \times 10^{-3}$
0.9733	0.2667	$8.820 \times 10^{-2}$	$1.908 \times 10^{-2}$	$6.145 \times 10^{-3}$	$3.252 \times 10^{-3}$
0.9800	0.2667	$8.293 \times 10^{-2}$	$2.069 \times 10^{-2}$	$6.160 \times 10^{-3}$	$3.269 \times 10^{-3}$
0.9867	0.2667	$8.221 \times 10^{-2}$	$2.101 \times 10^{-2}$	$6.320 \times 10^{-3}$	$3.299 \times 10^{-3}$
0.9933	0.2667	$7.836 \times 10^{-2}$	$2.136 \times 10^{-2}$	$5.512 \times 10^{-3}$	$3.150 \times 10^{-3}$
1.0000	0.2667	$7.142 \times 10^{-2}$	$2.199 \times 10^{-2}$	$4.017 \times 10^{-3}$	$2.873 \times 10^{-3}$